

## HEADLINE

Full Stack Web Application Developer, expert in Node.js

## EDUCATION

*Master of Science in Computer Science, May 2015*  
Tandon School of Engineering, New York University  
GPA: 3.8/4.0

*Bachelor of Engineering in Instrumentation and Control, May 2013*  
Netaji Subhas Institute of Technology, University of Delhi, India  
Graduated with First Division

## TECHNICAL SKILLS

### *Programming Languages and Frameworks*

Node.js, Nginx, Java, JavaFX, JavaScript, React.js, Redux, C/C++, .Net, C#, Python, MatLab, LabVIEW, PSpice, PROLOG, EAGLE, Arduino, HTML5, CSS, CMS (joomla, WordPress), Scheme, Flex and Bison, ADA95, XML.

### *Databases*

MySQL, Mongo, Amazon Document DB, MS SQL Server, SAP-HANA, Redis.

### *DevOps Experience*

AWS EC2, AWS Load Balancers, AWS Lambda Functions, AWS RDS, Docker containers.

### *Artificial Intelligence Systems*

Neural Network, Fuzzy Logic Type I and Type II, SVM, Natural Language Processing, Path Planning.

### *Natural Language Processing (NLP) Toolkits*

BIUTEE, VENSES, ROUGE, GATE developer, Open-NLP.

### *Softwares*

Jet Brains IDEs. MS Office, Adobe InDesign, Adobe Photoshop.

### *Operating Systems*

Mac, Ubuntu, RHEL, Windows.

## OPEN SOURCE NPM MODULES

< <https://npm-stat.com/charts.html?package=redis-rpc&package=error-logger&package=test-type&package=stashlogs2s3&package=stream2file&from=2014-01-01&to=2019-01-25> >

*redis-rpc* – A module to write microservices with Node.js. Abstracts remote procedure call from one node server to other. (June 2014)

- Being actively used in Clickdaily, Inc. development.
- Downloaded over 2700 times.

*error-logger* – Logs errors to file system. (June 2014)

- Being actively used in Clickdaily, Inc. and Quality Edgar Solutions development.
- Downloaded over 3500 times.

*test-type* – A module to test types of input variables. (December 2015)

- Being actively used in Quality Edgar Solutions development
- Downloaded over 400 times

*stream2file* – A module to simplify converting stream to a file. (June 2017)

- Being actively used in Quality Edgar Solutions development
- Downloaded over 200 times

*stashlogs2s3* – A module to Stash logs to Amazon AWS S3. (Oct 2017)

- Being actively used in Quality Edgar Solutions development
- Downloaded over 100 times

## EXPERIENCE

*Lead Developer* at **Quality EDGAR Solution**.

June 2015 – Present

### ***Application: QES eN-Power***

An RHEL desktop application to process data, generate XML submissions and submit N-PORT, N-CEN and N-LIQUID filings. Being licensed by **Ernst & Young**

*Technologies Used:* Java, JavaFX, FXML

*Key features:*

- Processes and validate thousands of security records in mere seconds.
- Validate data and provide error reports.
- Batch generate and file hundreds of filings at once.
- Retrieve data on filings from SEC.
- Keep track of acceptance and rejections by SEC.
- Track file updates over filings.

*Responsibilities:*

- Lead the development of the application.
- Define the architecture of the application.
- Define data models for data.
- Design novel algorithms to process and validate data.

### ***Application: QES Single Source Tool (Formerly Edgar Edge)***

An application to seamlessly convert InDesign Documents to EDGAR Html.

*Technologies Used:* Java, Adobe ExtendedJavaScript

*Key features:*

- Seamlessly convert InDesign typeset to EDGAR Html.
- Convert Images to Edgar Compliant formats
- Maintain styles from InDesign.
- Be able to track revisions and automate revision tagging.
- Maintain only one source of the document.
- Covert large documents with hundreds of in under a minute.

*Responsibilities:*

- Lead the development of the application.
- Define the architecture of the application.
- Create UI/UX for the application
- Design novel algorithms to perform conversion.

**Applications: QES Section16, QES Forms application, QES EDGAR editing application**

Web portals to help public companies file EDGAR/XBRL with SEC and maintain data for a variety of SEC XML forms as N-PORT, N-CEN, N-LIQUID, 13-F, Section 16 Ownership form.

*Technologies Used:* Node.js, JavaScript, Nginx, Python, MySQL, MongoDB, XML, XBRL, Backend and Frontend JavaScript Libraries.

*Key features:*

- Securely edit your EDGAR documents online editing while maintaining SEC complaint HTML.
- Fill XML forms.
- Manage versions of you documents.
- Powerful Compare tool to compare versions of your EDGAR documents.
- Interactive XBRL viewing and commenting.
- Self-file with SEC.

*Responsibilities:*

- Lead the technology division.
- Define the architecture of the application.
- Handle deployment to AWS.
- Create and maintain server-side, front-end and database code of the application.
- Develop new features.
- Design and Maintain applications UX and UI.

**Application: QES Translation Tool.**

A web portal to help Quality Translations team manage jobs. Allow clients and translates to manage documents and translation process

*Technologies Used:* Node.js, JavaScript, Nginx, MySQL, MongoDB, Backend and Frontend JavaScript Libraries.

*Key features:*

- Manage all jobs at Quality Translations.
- Allow translators to download/view source documents and upload translation.
- Allow clients to view the translations.
- Manage Billing.
- Send alerts on job process.

*Responsibilities:*

- Lead the technology division.
- Define the architecture of the application.
- Handle deployment to AWS.
- Create and maintain server-side code of the application.
- Develop new features.
- Design and Maintain applications UX and UI.

**Application: QES In House.**

A web portal to help Quality Edgar Solutions production team manage jobs.

*Technologies Used:* Node.js, JavaScript, Phantom.js, Nginx, Python, JAVA, MySQL, MongoDB, XML, XBRL, Backend and Frontend JavaScript Libraries.

*Key features:*

- Manage all jobs at QES.
- Actively interact and administer other web portals.
- Tools to compare HTML and text Files.
- Manage Billing.
- Send alerts on job process.

*Responsibilities:*

- Lead the technology division.
- Defined the architecture of the application.
- Handle deployment to AWS.
- Create and maintain server-side code of the application.
- Develop new features.
- Design and maintain applications UX and UI.

*Lead Developer at **Clickdaily**.*

February 2015 – April 2016

**Project: Clickdaily Social Media Management.**

Build a web portal to businesses manage their Social Media Platforms and in turn grow their customer base.

*Technologies Used:* ASP.NET, C#, APIs, Node.js, JavaScript, Nginx, MSSQL, MongoDB, Backend and Frontend JavaScript Libraries

*Key features:*

- Track users who are posting near your business using hashtags and keywords and send them custom promotions and messages to drive new business.
- Efficiently create and schedule an unlimited number of messages to post automatically at any time you want.
- Create limited promotions in a flash that will be shared to all of your followers to attract new and repeat business immediately.
- Social Media timelines conveniently displayed on a single simple to use interface.
- Monitor mentions of your name and products across all of your accounts and allows you to quickly and easily respond to these interactions

*Responsibilities:*

- Transferring all code base from Minsk, Belarus and developing locally
- Convert system to Node.js from .Net.
- Create a microservices based architecture.
- Creating reservation modules.
- Creating employee scheduling modules.

*Lead Developer at **Evolving Technologies Corporation**.*

September 2013 - December 2014

**Project: ETC-Unite.**

Built a collaborative environment for Unions and Corporation to negotiate contracts. Negotiators could make models defining relationships between different decision variable and KPIs. This allowed both union and corporation to compare different scenarios in real-time.

*Technologies Used:* SAP-Hana, Node.js, JavaScript, MongoDB, Backend and Frontend JavaScript Libraries

*Key features:*

- Interactive Dashboard to develop models
- Real-time communication across the application
- Ability to design a presentation dashboard.
- Instantaneous calculation of KPIs

*Responsibilities:*

- Lead a team of 4-6 people.
- Defined the architecture of the application.
- Created and maintained all server-side and front-end code of the application.
- Wrote SAP-Hana Stored Procedures to define models for different problems in contract.
- Be part of United Airlines Association of Flight Attendants negotiations with United Airlines.

- Innovated a data flow-based application structure.
- Implemented real-time collaboration using web sockets (socket.io) and WebRTC.

*Intern at Hi-Tech Robotic Systemz Limited in NLP.*  
Spring 2013

**Project:** To fetch an article from Wikipedia based on a keyword. Extract information out of HTML pages and summarize it.

*Technologies Used:* MatLab, NLP toolkits, Python, C/C++

*Responsibilities:*

- Using python fetched articles from Wikipedia, and extracted text information for html pages
- Using MatLab created an extractive summarization system based on analog entailment.
- Analog entailment was calculated using BIUTEE and VENSES.
- Gate developer was used for Named Entity Recognition

*Intern at Hi-Tech Robotic Systemz Limited.*  
Fall 2012

**Project:** To create a path planning module for a mobile robot with ability to track a ball.

*Technologies Used:* C/C++

*Responsibilities:*

- Implemented for path planning modules, viz Dijkstra's, A-Star, Gradient Descent, Grass Fire, making robot capable to track a ball and navigate without supervision.

## JOURNAL PUBLICATIONS

Vineet Kumar, K. P. S. Rana, Sundeep Narang. "Comparative Study of Type-2 and Type-1 Fuzzy PI Controllers on Sensor Noise Suppression in a Control Loop" Journal of Control Engineering and Applied Informatics 19.2 (2017): 20-30

## CONFERENCE PUBLICATIONS

Anand Gupta, Sundeep Narang, Tasha Chandolia. Gender Classification based on Lip Colour. In: Proceedings of Fifth International Conference on Contemporary Computing (IC3 2012), IIIT, Noida, August 6-8, 2012, published by Springer in Communications in Computer and Information Science, 2012, Volume 306, Part 2, Part 2, 176-187. (MatLab)

## TALKS AND PRESENTATIONS

- "Phantom.js, for testing and beyond!" by Sundeep Narang, for JavaScript NYC meetup, at iHeartRadio Theatre.
- Duru Arun, Sundeep Narang, Tasha Chandolia. Women's Employment in Informal Sector: A Compulsion or An Opportunity. In: Proceedings of Indian Sociological Society Diamond Jubilee Celebrations XXXVII All India Sociological Conference, December 11-13, 2011, Centre for the Study of Social Systems, School of Social Sciences, Jawaharlal Nehru University, New Delhi

## ENTREPRENAURIAL PROJECTS

- *Triptify* - A web app and Chrome extension that helps travelers to organize, book, and share travel plans with friends, using Expedia and Google Flights API. Advanced to 2nd round of Inno/Vention, NYU SOE's prototyping and business plan competition. (JavaScript Libraries, Nodejs)
- *eNote* – an efficient Web App for Computer Science students to take notes. Presented at 2014 NYU Polytechnic School of Engineering Research Expo. (JavaScript Libraries, Nodejs)
- *Holmes* – A Question Answering system for NLP course project at NYU. (Open-NLP, Lucene, Java)

## RESEARCH PROJECTS

- Performance Studies of Fuzzy Controllers under Prof. K.P.S. Rana and Prof Vineet Kumar, Division of Instrumentation and Control Engineering, NSIT. (MatLab, LabVIEW)  
Published in *Journal of Control Engineering and Applied Informatics*
- Arduino Microcontroller based projects under Prof. D.V. Gadre, Division of Electronics, NSIT
  - A 5/3.3V uA723 based Power supply using foldback for protection.
  - Made an Electronic Dice using LEDs.
  - Worked on LED Displays

## NEWSPAPER AND DIGITAL PUBLICATIONS

- **“Recent NYU Grad's EDGAR Edge Links Document Design and Compliance Filings”**  
<https://www.law.com/legaltechnews/2018/02/20/recent-nyu-grads-edgar-edge-links-document-design/>
- **“Experts On The Top Information Security Considerations For The High Tech Industry”**  
<https://digitalguardian.com/blog/experts-top-information-security-considerations-high-tech-industry>
- **“Quality EDGAR Develops Software To Transform Typeset To HTML”**  
<https://mitechnews.com/new-products-contracts/edgar-develops-software-transform-typeset-html/>

## AWARDS AND HONORS

- Won Funkiest Hack at Hack Red Hook for Story Farm - an innovative approach to cultivate art and storytelling - for children & adults <<http://devpost.com/software/story-farm>>

**Idea** – To bring an artist’s audience close to the artists creations.

**Description** – Users are given ability to create their own art pieces using extracted pieces from artists creation

**Technology** – Node.js, express.js, MongoDB, socket.io.

- Received Graduate Innovation Fellowship for \$9000/year by NYU - Tandon School of Engineering
- Received Merit Scholarship for Academic Excellence at NSIT in final year.

## CO-CURRICULAR ACTIVITIES

- Co-Founder of Control Delvers, an Instrumentation and Control based works society, in NSIT.
- Creative Design Head of NSIT Yearbook team (2011-12).
- Assistant designer of NSIT Yearbook team (2010-11).
- Member of Organizing team Alumni Meet 2012 at NSIT.
- Organizer of a Mega Event Nukkad Natak in Moksha '11(NSIT Cultural Fest).

## VOLUNTEER WORK

- Served a Judge for Long Island Science and Engineering Fair.
- Served a Judge for New York City Science and Engineering Fair.
- Served a Judge for New Jersey Regional Science and Engineering Fair.
- Served a Judge for New York State Science and Engineering Fair.
- Worked with Indian Youth Climate Network as an Eco-Auditor under Eco-Audit Program
- Volunteered in Jaagriti – An awakening a group of YOUTH VOLUNTEERS, working to address the EDUCATION, HEALTH and ECONOMIC needs of less privileged communities; for web development, communications and fund-raising initiatives (2011).
- Participated in Collection Drive 2010 organized by Retract Club, NSIT.