ANUHYA SAI NUDURUPATI

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EDUCATION

Master's in Computer Engineering, Arizona State University, Tempe **GPA: 3.63** **Aug'17 - May'19**
Courses: Multimedia and Web databases; Foundations of Algorithms; Random Signal Theory; Cloud Computing; Data Mining; Statistical Machine Learning; Adaptive Web; Artificial Neural Networks; Distributed Database Systems, Semantic Web Mining

Bachelor's in Electronics Engineering, National Institute of Technology, Karnataka **GPA: 3.70** **Aug'13 - May'17**

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (ES5, ES6), Java, C, Bash, C++, HTML5, CSS3 / SASS, R
Databases: MySQL, SQLite, Firebase, MongoDB (using Mongoose), PostgreSQL
Cloud/Big Data Platforms: Heroku, AWS (S3, EC2, RDS, SQS), Elasticsearch, Google Cloud Platform, Hadoop, Apache Spark
Frameworks: Node JS, React JS, Redux, Bootstrap 4, jQuery, Sequelize JS (ORM), mocha and chai, Mustache, Webpack, Handlebars JS, Spring boot (SOA), REST services, Spark, Kafka, Cassandra, Hadoop, Hive, Google Analytics, Tableau, Docker
Version Control & Development Methodology: Git, GitLab, Agile (Scrum)

WORK EXPERIENCE

Full-Stack Developer Intern | Insure Compliance, Mesa, Arizona **Sept'18-Jan'19**

- Designed web application to automate the internal processes of the company - invoice generator, billing services, push notifications email reminder, task management and designing database.
- Engineered the database architecture on MySQL Server & provided **auth services (OAuth 2.0)** using **Google Firebase**.
- Created the website using the stack (**Express, React, SQL, Node JS**) and deployed it on **AWS**.
- Capitalized profits by **20%** by reducing recurrent losses caused by errors in data entry.

TECHNICAL PROJECTS

Student Hub | https://github.com/asai28/student-hub **Aug'17-Dec'17**

- Founded a students portal to get professor ratings, upload/download question papers, create study schedules and search for internships/jobs and catalogue them personalized to each student account.
- Formulated web front-end using **React JS**, HTML5, CSS3, Bootstrap4 and back-end using **Express JS** and **Node JS**.
- Student information was captured as documents using **MongoDB** and the application was deployed on **Heroku**.

Image recognition using Amazon Web Service | github.com/asai28/imgrec.git **Jan'18-May'18**

- A highly elastic application implemented as a **micro-service** architecture to recognize uploaded images.
- Engineered a **custom load balancer algorithm** and ensured high reliability of messages using **SQS** & **S3** storage.
- Microservices were developed using **Spring Boot** and image recognition was done using **Tensorflow**/ImageNet .
- **Efficiently scaled** to support over **100,000 concurrent requests**.

ASU Chatbot using Google Cloud Platform | Android, jQuery, GCP | github.com/asai28/asuchatbot.git **Jan'18-May'18**

- Scalable web and Android application to address FAQs of ASU students with voice integration.
- Implemented the **web server using Spring Boot** and front-end was developed using HTML5, CSS3, JavaScript, jQuery.
- Applied **text mining** to extract most relevant answers & trained **NLP model on Google DialogFlow back-end**.
- Reduced need of searching across multiple resources & provided answers instead of links which significantly accelerated manner to answer & also assists people with disabilities through voice integration.

Road Runner | https://github.com/asai28/road-runner.git **Jul'18-Aug'18**

- Web service that enables a user to look up rental cars around his/her address and gives the user refined filter options by pulling data from different car rental services.
- **Node JS, Express JS, Handlebars JS**, HTML, CSS, jQuery, **Sequelize JS, Passport JS**,Heroku, MySQL
- Provided best rental options based on filters thereby reducing manual comparisons across various rental agencies.

Content based recommendation using behavioral logs of StackOverflow users **Aug'18-Dec'18**

- Tracked, analyzed and **visualized** user patterns on stack overflow pages containing java tags to understand user behavior and recommend relevant content from Java wiki-books.
- Created dynamic visualizations of user patterns using **Google Charts API & D3 JS.**
- Generated analytics for recommendation using **Elasticsearch** containing scraped web data using **python/beautiful soup**.

Geo Spatial Analytics on Hadoop Distributed File System using Spark **Aug'18-Dec'18**

- **Deployed 3-node spark cluster** to perform K-NN, spatial range and join queries.
- **Partitioned** the dataset into part-tables for faster access of data(10 million rows) using range partitions.
- Performed hot-spot analysis to identify most significant locations in Tempe(Arizona) based on taxi trip data using **GeoSpark.**