

## EDUCATION

- **San Jose State University** San Jose, CA  
*Master of Science in Software Engineering; GPA: 3.78* Expected May 2018
- **Gujarat Technological University** Ahmedabad, India  
*Bachelor of Engineering in Computer Science* Aug. 2011 - July. 2015

## EXPERIENCE

- **Synopsys** Mountain View, CA  
*Software Engineering Intern, InfoSec team* June 2017 - Present
  - **Security Monitoring Application:** Built a real time security monitoring and analytics application using React.js and socket.io feeding from an Elasticsearch, Logstash and Kafka backend.
  - **Vulnerability Dashboard:** Created a Flask application to improve ownership and visibility into vulnerable hosts within the organization using information from Nexpose and Elasticsearch. Impacted the overall patching speed and made historical data more accessible.
  - **Compliance Dashboard:** Developed a tool to consolidate data about all security tools present in the environment. Enabled the ability to view a complete profile of a host within the organization in a single place. Used for determining the compliance state of a host in an investigation and for generating metrics for executives.
  - **Security & Red Teaming:** Researched and learned about various SIEM's, security vulnerabilities, exploits, penetration testing and other Red Teaming Techniques.
- **Tata Consultancy Services** Ahmedabad, India  
*Assistant Systems Engineer - Trainee* Dec 2015 - Jul 2016
  - Developed and maintained REST API's using JAX-RS specifications in Spring for an internal tool.
  - Rated 5/5 during Initial Learning Program (Onboarding Bootcamp) for SAP ABAP and JAVA.

## SELECTED PROJECTS

- **Fast News** <https://fastnews.me>  
*Technologies: Go, React.js, Node.js, Python, AWS, Redis* Jan 2017 - Present
  - Created a fast & lightweight web application which aggregates popular news articles from the web and presented concise summaries in a minimalist user interface.
  - Learned lessons on scalability by utilizing Amazon's auto-scaling EC2 instances, load balancers and ElastiCache. Built a decoupled API server and responsive user interface to work with any platform.
  - Used machine learning algorithms like K-Nearest Neighbors, TF-IDF values to generate summaries for the news articles. Widely appreciated on HackerNews and Reddit, handled 10K users within days of launching.
- **Airbnb Prototype** <https://git.io/vAq8E>  
*Technologies: Node.js, MongoDB, AngularJS, Redis, ELK stack, D3.js, RabbitMQ* Oct 2016 - Dec 2016
  - Developed a distributed 3-tier application using REST architecture to offer all functions of Airbnb for renting homes. Implemented a dynamic pricing algorithm for user properties.
  - Achieved high performance while supporting 10,000 hosts, 10,000 users and 100,000 billing records. Implemented analytics and visualization modules for users, hosts and administrators.
- **Porto Seguro's Safe Driver Prediction** <https://git.io/vAqzo>  
*Technologies: Python, Scikit-learn, Jupyter Notebook, Numpy, Pandas, Matplotlib* Aug 2017 - Dec 2017
  - Built a machine learning model for a Kaggle challenge to predict the probability of a driver initiating an insurance claim in the next year. Dataset provided was highly imbalanced with 59 dimensions.
  - Implemented and compared various models with a data pre-processing pipeline and cross validated tests using GINI as the evaluation metric. Presented the project and results in the Large Scale Analytics class.
- **Emotion Recognition**  
*Technologies: Python, Spark, Elasticsearch, Kibana, Kafka, React* Sept 2017 - Present
  - Working in a team project to classify emotions using a multi-modal technique comprising of facial expressions, speech, health and social network data
  - Building a prototype to analyze emotional patterns by correlating data from various sources.

## PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, Java, C++, Go **Web:** Node.js, AngularJS, React.js, D3.js, HTML/CSS
- **Cloud:** AWS, Bluemix, Heroku **Tools & Frameworks:** Git, Docker, Logstash, Filebeats, Kibana, Nginx
- **Databases/Middleware:** MySQL, MongoDB, Elasticsearch, RabbitMQ, Redis, Kafka