Salmaan Pehlari

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EDUCATION

San Jose State University *(M.S. Software Engineering)* — May 2018
Coursework: Web & Data Mining, Large Scale Analytics, Distributed Enterprise Systems, Cloud & Virtualization.

Gujarat Technological University *(B.E. Computer Engineering)* — June 2015

EXPERIENCE

Synopsys Inc, Mountain View, CA — June 2017 - Present

Intern, InfoSec Team

- Built a real time security monitoring and analytics application using React, Node.js and socket.io feeding from an Elasticsearch, Logstash and Kafka backend pipeline.
- Improved data mapping for log sources from various threat intelligence and monitoring sources in the Information Security Team reducing storage required in Elasticsearch by more than 40%
- Researched and learned about various security vulnerabilities, exploits, penetration testing and other Red Teaming Techniques.

Tata Consultancy Services — December 2015 - June 2016

Assistant Systems Engineer - Trainee

- Developed and maintained the backend server for an internal tool using Nodejs and MySQL. API's were consumed by web and mobile based applications.
- Rated 5/5 during Initial Learning Program for SAP ABAP and Core Java.

SELECTED PROJECTS

Fast News *(http://www.fastnews.me)* — January 2017 - Present

Personal Project

- 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.

Russian Housing Market Price Prediction — March 2017 - May 2017

Technologies: Python, Scikit-learn, Jupyter Notebook, Numpy, Pandas, Matplotlib

- Placed in top 10% in a Kaggle challenge to predict housing prices using a Russian housing market dataset along with a macro-economic dataset.
- Implemented and tested various regression models with a data pre-processing pipeline and cross validated tests using RMSLE as the evaluation metric.
- Presented the project and results in the Web and Data Mining class.

Airbnb Prototype *(https://github.com/SalmaanP/Airbnb_Prototype)* — October 2016 - December 2016

Technologies: Node.js, MongoDB, AngularJS, Redis, ELK stack, D3.js, RabbitMQ, JMeter

- 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.

TECHNICAL SKILLS

Programming:	Python, JavaScript, Java, R
Database Systems / Middleware:	MySQL, MongoDB, RabbitMQ, Redis, ELK Stack, Kafka
Web Technologies:	Node.js, AngularJs, React, Express, Mocha, HTML/CSS, Restful Services
Software Design:	UML 2.0, Design Patterns, Waterfall, Agile, Scrum, Kanban
Cloud:	AWS, Bluemix, Heroku, Docker