Avinash Sivaraman

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SOFTWARE ENGINEER

Computer Science graduate with a focus on Software, Web and Machine learning. Interested in a career as a Software Engineer. I've prior industry experience at Goldman Sachs, as New Analyst Programmer Associate (NAPA) in the Engineering division on

- Software Development
- Testing and Automation
- Web development (React)
- Platform engineering

EDUCATION

Master of Science – Computer Science May 2020
Arizona State University, Tempe, AZ GPA 3.66 / 4.0

Bachelor of Technology – Information Science and Technology May 2016
College of Engineering, Guindy, Chennai, IND GPA 8.9/10

PROFESSIONAL EXPERIENCES

Graduate Service Assistant Sep 2018 – Current
Formative Assessment with Computational Technologies (FACT) Project Lab, AZ

- Working as **React Developer** in harnessing the analytic power of computer-supported collaborative learning and intelligent tutoring systems.
- Redesigned the build system to latest version to improve the performance of the application.
- Created an end-to-end demo workflow in the existing application.

Technology Analyst Jun 2016 – Jul 2018
Goldman Sachs, Bangalore, IND

- Worked on Distributed Trade Processing (DARTS) Team under Goldman Sachs Asset Management (GSAM).
- Developed a Web User Interface using **React and Redux** to monitor, search, amend and cancel the trades booked by traders.
- Achieved an increase in performance of **75%** by identifying the minimal representation of a UI state and reducing the bundle size of the application.

Summer Intern May 2015 – July 2015
Goldman Sachs, Bangalore, IND

- Implemented the Automated Testing using JBehave for Central Trading Desk Team to improve the code quality and reach the high Test Maturity Model (TMM) level.
- Test coverage includes **70%** of the application.

ACADEMIC PROJECTS

Information Retrieval and Analysis – Dataset: DIV150CRED **Fall 2018**

- Used textual and visual descriptors to parse the given user, location and visual data and implemented functionality that aims to reduce the dimensionality of data using factorization techniques like **SVD, PCA, LDA, and Tensor Decomposition**.
- Improved data retrieval by using algorithms such as **clustering, personalized page rank, classification, and locality sensitive hashing**. NumPy and Scikit python libraries are used to solve the problem.

Choice of Plausible Alternatives – COPA Challenge **Fall 2018**

- Designed and Developed an NLP system to solve COPA challenge by using web corpus and causal networks.
- Constructed a best possible query of keywords for the sentences and alternatives to find the perfect match in the web. **Stanford Core NLP** python kit is used to parse the sentence into it part of speech.
- Used **K-Parser** to compare the actual sentence and web corpus data.

American Sign Language (ASL) – Android Project **Fall 2018**

- Created a Machine Learning (ML) powered **Android** application to enable easy learning of ASL signs.
- Built a Model using **Decision Tree classification** to detect the word from the recorded video.

Dynamic Fairness Scheduling – Openstack **Fall & Spring 2016**

- Achieved a high throughput in scheduling each node using "Best Fit Scheduler" and "Live migration support".
- Used Arima Time series model in predicting the node usage to improve the scheduling.

TECHNICAL SKILLS & RELEVANT COURSES

Programming: JavaScript, Python, Shell, C, C++, Java
Framework: React, Redux, NodeJS, RxJS, NumPy, SciKit, React Native, Android, MySQL, Mongo
Courses: Web Technology, Multimedia and Web Databases, Natural Language Processing, Mobile Computing, Data Analysis, Distributed System, Cloud Computing, Unix internals.