Akhilesh Hegde

hakhil.github.io

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EDUCATION

Northeastern University
Boston, MA
Master of Science in Computer Science
September 2017 – Present

PES Institute of Technology
Bangalore, India
Bachelor of Engineering in Computer Science
August 2011 – May 2015

EXPERIENCE

Tesla, Inc.
Fremont, California
Software Engineer Intern
June 2018 - December 2018

- **Service Center Application**: Contributed feature improvements, helping the team ramp up during the phase of global rollout of the application. Delivered timely results to ship key features, which streamlined the existing workflow at Tesla service centers.
- **ServiceDocs**: Worked on improving the subscription model for the document publishing service. Implemented instant subscription activation functionality for fast turnaround times during user registration, which previously required manual verification. Fixed numerous problems to address user access issues, payment failures and subscription renewal workflows in quick time, which directly impacted the cash flow generated by the service.

Juniper Networks
Bangalore, India
Software Engineer 2
July 2015 - June 2017

- **API Gateway**: Developed and maintained the system used to secure APIs and services, using Go, AWS and Redis. Integrated features like analytics collection and developer dashboard. Led the development effort to onboard APIs in use by critical IT applications, while ensuring smooth transition with zero down time.
- **Meeting room reservation**: Application used to book a meeting room in any office worldwide. The application updated an MS Exchange calendaring server, which was also used by the display devices at every meeting room. Led the effort to improve the design and UX of the application. Written in Java and Javascript.
- **AWS**: Involved in application cloud architecture planning, scaling, cutover, deployment and maintenance activities for numerous applications used in the IT organization. Worked on services like Elastic Beanstalk, S3, Route53, IAM, ElasticSearch and CloudWatch.

Juniper Networks
Bangalore, India
Software Engineer Intern
January 2015 - June 2015

- **Kanban application**: Developed a single-page Kanban application using meteor.js. Used for tracking project stories and deliverables. This was done in an effort to promote adoption of agile development practices in teams, for which the application was the primary resource for task planning and scheduling.
- **Chrome extension**: Created the 'Juniper Browser Tags' Chrome extension using Javascript, which helps improve access to and navigation across internal IT applications and services. Published to and available in the Chrome Web Store.

PROJECTS

- **Face Recognition using CapsNets**: Research project to adapt capsule networks for use in face recognition.
- **Distributed Hash Table**: Developed a fault-tolerant, scalable Distributed Hash Table using the Chord protocol.
- **Game Agent Design for Pacman**: Scripted bot used to compete in a Pacman contest, using search techniques for an agent in an adversarial environment.
- **Rank Problem Solving Skills**: Data mining project to rank problem solving skills of students, using performance metrics collected on a task of solving problems in finite automata.
- **Code Optimization**: Optimizing a C program's constructs such as loops and invariants using code motion.

PROGRAMMING SKILLS

- **Languages**: Python, Java, C++, C#, Javascript, Go

- **Data Stores**: MySql, MongoDB, OracleDB, Redis, ElasticSearch

- **Services**: AWS, Docker, Kubernetes