Pranav Prem

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Technical Skills

Languages: Python, Java, C++, C, JavaScript, HTML5, CSS3, JSP, PHP, SQL, bash, XSL.

Technologies: Spring, Hibernate, JPA, Maven, REST, SOAP, Hadoop, Node.js, React.js, Angular.js, Docker, AWS, Elasticsearch, Logstash, Kibana, MongoDB, Cassandra, MySQL, DynamoDB, AWS Cloud9, AWS Lambda, Git, Selenium, Jenkins, Jira.

Education

San Jose State University, San Jose, CA

Jan 2017 - Dec 2018

3.95 GPA

Master of Science - Software Engineering

• **Completed dual specialization** in Enterprise Software Systems and Cloud Computing & Virtualization with coursework in Enterprise distributed systems and Data Mining.

Goa University, Goa, India

May 2010 - May 2014

Bachelor of Engineering - Computer Engineering

3.7 GPA

Completed coursework in Data Structures, Artificial Intelligence, Data Mining, Web Technologies and Mobile Computing.

Experience

Nest (Google Hardware PA) - Software Engineer Intern

Jun 2018 - Aug 2018

• Architected and designed a performance monitoring dashboard for the Nest Web Application using **Python**, **Dremel and a variety of internal Google tools**.

San Jose State University - Teaching Assistant

Jan 2018 - May 2018

• Fabricated an automated grading system with **Docker**, **REST API in Python**, **grails and shell scripts** as Teaching Assistant under Prof Paul Nguyen for Cloud Technologies course in Spring 2018.

HSBC Software Development, Pune, India - Software Engineer

Aug 2014 - Jan 2017

• Led a team of 5 developers in an Agile environment working on email solutions using JSP (Spring, Struts and Hibernate) for HSBC Europe, Middle East, and North Africa.

Achievements

- Engineered a Lean Six Sigma Certified Greenbelt Java application to save over 2000 hours of effort at HSBC.
- Reduced team's overall time to market by 25% in HSBC, by single-handedly designing and implementing a Continuous
 Integration Continuous Delivery (CI/CD) pipeline and automation testing with GitHub, Jenkins, Jira, Selenium, and Control-M.
- Wrote and presented a paper titled "A Transmission Control Tunnel for Datagrams" at 7th IETE Conference on reliably and securely transmitting UDP data using a specialized SSH tunnel demonstrated with a VoIP (https://github.com/pranavprem/fyp)
- Ranked 8th in India for 'IEEE Xtreme 7' 24-hour Hackathon, solving questions using C++ and Python.

Projects

Dragonstone Pizzeria

https://github.com/pranavprem/DragonstonePizzeria

Formulated and developed a Pizza ordering system strictly adhering to Agile methodologies, with Sockets.io, Angular.js, Node.js, Go, MongoDB cluster and Redis to handle availability and eventual consistency during partition tolerance. Deployed to AWS using stack files in Docker Cloud with over 40 Docker containers in 5 AWS regions.

SpartanBot

https://github.com/pranavprem/Spartanbot

Created a Python-based **Chatbot** with an **Alexa Skill** that finds optimal replies to questions on the SJSU domain using the **Watson NLC API, Google search API,** a custom NLC algorithm with a **MongoDB** backend and **Twilio API** for SMS.

California Ultra Speed Rail

 $\underline{https://github.com/pranavprem/CUSR}$

Engineered a ticket booking system for a Rail Network with a **React front-end** deployed to **Heroku** and a **Spring boot back-end** deployed to **AWS** with an **RDS database**. Additionally, developed a reporting system with **Elasticsearch and Kibana**.

Karma Mining

https://github.com/pranavprem/karmamining

Built a **Regressor** and a **Semantic Analyzer** that **mined 2.5 billion reddit comments** to generate a "score" for any comment. Further used this as a measure **to sort comments on posts** to get good comments at the top. Made with **Python and React**.

TasKind

https://github.com/pranavprem/TasKing

Fabricated a task tracking application in Java that won Above and Beyond award for self-initiated projects at HSBC.