

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

Master of Science - Software Engineering

3.90 GPA

- 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

Salesforce.com – **Software Engineer, SMTS**

Mar 2019 - Current

- Fast-tracked Service Cloud Real Time to Public Cloud (AWS)
- Created alerting and monitoring systems for the Live Agent (Chat) application
- Automated a month's worth of manual effort involved in creating release version down to a few minutes

Google – **Software Engineer Intern**

Jun 2018 - Aug 2018

- Designed and built a performance monitoring dashboard for the Nest Web Application using Python, Dremel and a variety of internal Google tools and Engineered a mechanism that automatically creates issues in Jira on failures in automation testing.

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.
- Ranked 2nd in 'Opportunity Hack' 24-hour Hackathon conducted at PayPal, San Jose. Built a system to help City of San Jose using AWS Lambda, an Alexa Skill and a front end with AngularJS. (<http://devpost.com/software/parks-rec>)

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

<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.