Swetha Jayapathy

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Career Overview

Highly self-motivated individual with 4+ years of professional experience in Software Development and Quality Assurance with extensive experience on all stages of SDLC. Proficient in AWS, Microservices, Object-oriented programming, Python, Java, JavaScript, Node.js, SQL/NoSQL databases, Automation, CI/CD, Agile methodologies.

Education

MS in Computer Science (3.53 GPA) - Oregon State University, OR, USA   **July 2021**(Expected)
BE in Computer Science (3.72 GPA) - Anna University, Chennai, India   **May 2014**

Work Experience

Graduate Research Assistant (AI Software Engineer) OSU, USA   **Dec 2020 – Present**
- Working on a project under the R&D wing of the USA department of defense to evaluate the AI Agent using Machine Learning algorithms.
- Automated reporting by using a Slackbot that retrieves data from the data warehouse in the cloud and sends custom reports to channels in Slack on a schedule
- Created a command line utility in python for data manipulation – data encryption, decryption, rename, upload to cloud etc.

Software Developer, Tata Consultancy and Services, India   **Oct 2017 – Sept 2019**
- Built backend microservices for a major US-based retail supply chain network, leading a team of 3 members, and delivered the project successfully in 8 months which was greatly appreciated by the client
- Implemented the REST APIs using Java, Spring Boot, Spring MVC, Hibernate and the application data/logs were managed in Apache Cassandra NoSQL database
- Developed a Kafka consumer application to optimize the order fulfillment by mapping the nearest store/distribution center with a clustering-based algorithm which increased the cost savings to 10,000 USD per day.
- Built and deployed CI/CD for the applications to production using Jenkins and Docker

Quality Assurance Engineer, Tata Consultancy and Services, India   **Dec 2014 – Sept 2017**
- Led a team of 3 members under Quality Assurance testing for 6 months, where I was awarded the "Applause Award" for successfully delivering the project with the highest quality
- Automated the entire workflow of a major UK brand's Supply Chain network to perform system integration testing and UAT testing using Selenium, Sikuli, and Java which reduced the manual effort required to test the application by 50%

Graduate Project, OSU, USA

Identification & Tracking of COVID affected people
- Developed an interactive application to monitor corona affected students using Microservice architecture, Spring Boot, Java, Flask, Python and React JS
- The Back-end application was developed using Python and Flask API and was hosted in AWS. It uses a convolution neural network-based algorithm to recognize the facial features of a person and sends out alerts to the servers

E-commerce Website for a local retail business
- Built an end-to-end e-commerce website using Django, and React JS with features including catalog display, interactive shopping cart, item search, checkouts, and Stripe payments.
- The Platform got 100+ users, and another local business partner

Resume Builder
- Developed a Resume Builder web application using JavaScript, jQuery, and Node.js using scrum and agile practices which generates resume based on the chosen template within just 5 minutes of filling the form

Data-Driven Software Engineering – Sentiment Analysis
- Developed an application to mine Git repositories, analyze the sentiments of developers from non-code contributions, and evaluate the success and quality of the project based on the analysis.
- Implemented this using Python, Pandas, PySpark, and NLP library of TextBlob to analyze the polarity of the sentiments

Awards & Achievements

- Awarded Graduate Research Assistantship in computer science AI department based on merit - OSU
- Awarded "Applause Award" award for successfully delivering a project with zero bugs -TCS
- Awarded "On the Spot Award" for my spontaneous performance during production support- TCS

Technical Skills

Programming Skills	:	Java, Python, JavaScript, Node.js, SQL, Regex, HTML, CSS, React JS
Tools/Technology	:	Apache Maven, Spring Boot, Selenium, Jenkins, JDA WMS, PyCharm, Postman, Swagger API AWS[IAM, S3, VPC, EC2,RDS, Lambda, RDS], Docker, Kubernetes, Django, Flask, Apache Kafka
Database	:	MySQL, Apache Cassandra, PostgreSQL, SQL Server, Redis