

Omkar Hatwalne

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Summary

Software engineer with 3 years of experience in Application Software Development using Python, Java, SQL | Proficient in user-centered Agile software development methodologies | Strong hands-on experience in Python development with integration of Amazon Web Services

Education

Binghamton University, State University of New York

MASTER OF SCIENCE IN COMPUTER SCIENCE

Binghamton, New York, USA

August 2018 - May 2020

Pune University

MASTER OF SCIENCE IN COMPUTER SCIENCE

Pune, India

July 2012 - August 2014

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

July 2009 - April 2012

Experience

Binghamton University, Information Technology Services

STUDENT ASSISTANT - SOFTWARE ENGINEER

October 2019 - May 2020

- Designed data processor layer in Python which performs validation, curation, and reroutes reported issue data to appropriate domain
- Created data models and fields in Splunk Enterprise for search time mapping of received log, Extended Common Information Model (CIM) as add-on for data extraction and identification.

Bristlecone Inc

ASSOCIATE CONSULTANT

June 2017 - July 2018

- Developed product Connector to enable a transaction between e-commerce marketplaces and Enterprise resource planning using Java, JSON and XML parser. Cooperated with 5 developers to design application architecture with Maven
- Led team of 3 developers to integrate AWS Simple Storage Service (S3) and Simple Queue Service (SQS) for storage and synchronization of documents. Improved functionality and performance of Connector by 80%
- Validated API response with POSTMAN tool; Utilized REST template for API execution to resolve design-related issues.

Zensar Technologies

JUNIOR SOFTWARE ENGINEER

February 2015 - August 2016

- Collaborated with team of 8 to re-engineer Vendor Registration Portal by implementing microservices with Python and SQL to manage an application workflow. Performed validation on user-provided data
- Managed in-house python application integration with AWS EC2, S3, VPC, and ELB to improve scalability and performance by 40%
- Performed unit testing using Mockito to approve test cases for application usage scenarios for better component development with a test coverage of 90% of statements, branches and conditions.

Skills

Programming Python, JAVA, SQL, JavaScript, HTML, CSS

Amazon Web Services LAMBDA, EC2, ELB, S3, VPC, IAM

Tools PyCharm, Eclipse, NetBeans, Selenium, Jenkins, Jira, Git, Jupyter, Postman, Maven, Gradle

Technologies Spring REST, Flask-RESTful, RESTful web services, MVC, Mockito, Splunk, Android

Projects

Microprocessor Pipeline Simulator

JAVA, ECLIPSE

- Implemented simulator for out-of-order execution pipeline. The input of simulator was a sequence of assembly instructions led to cycle-by-cycle execution. Implementation of multiple functional units, load store queue, reorder buffers, unified register file, register renaming, issue queue, and flags. Provided support for branching and memory instructions based on custom parameters value

Student Registration System

ORACLE, JAVA/JDBC, NETBEANS

- Developed a real-time Java application, supported operations of enrollment and withdrawal of a student, maintained logs of activities, and provided a user-friendly display of student details. Devised complex queries using packages and stored procedures, index, views and joins to store data. Designed triggers for automated updates of logs on every operation in database

Automated Parking System

ANDROID STUDIO, C++, RASPBERRYPI, IR SENSORS

- Created an Android application with multi-client support, to reserve a parking slot with real-time data. Time-out functionality and continuous parking status update are incorporated with an interactive and appealing GUI. RaspberryPi, IR Sensors are in place to collect the data from server. Request for booking, check availability, display status of request are supported in android GUI