ASHISH PRABHUNE

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EDUCATION

Master of Engineering, Computer Science **December 2020**
University of Cincinnati, OH GPA 3.91
(Relevant courses: Advanced Algorithms, Database Theory, Parallel Computing, Operating Systems, Cloud Computing)

Bachelor of Engineering, Information Technology **August 2016**
University of Mumbai, India GPA 3.53

TECHNICAL SKILLS

Languages: Java, C++, Python
Frameworks: Spring 5, JUnit 5, CUDA
Tools: IntelliJ, GitHub, Jira, IBM MQ
Databases: DB2, MySQL, MongoDB
DevOps: Docker
Cloud: AWS, Azure

EXPERIENCE

Senior Software Engineer - *Persistent Systems, Pune, India* **September 2016-July 2019**

- Developed an interface that enabled the simulation engine to communicate with the legacy software via messaging queues using point-to-point and publish/subscribe messaging.
- Built a communication wrapper that enabled inter-process communication via TCP/IP sockets.
- Redeveloped the functionalities to improve the transaction per second by 25% and reduced memory utilization by 20%.
- Developed automation solutions using shell and Python scripts for build and deployment process, health check of the system and environment clean-up.
- Developed embedded SQL to improve the modularity and speed of the component.
- Containerization of components using Docker which enabled multiple development and testing environments for continuous deployment and testing.

ACADEMIC PROJECTS

Pet-Clinic (Java, Spring5, ThymeLeaf, Hibernate, Maven, JUnit, Docker) **January 2020**
Developed a pet clinic website using Spring Framework 5 following the Test-Driven Development approach using Mockito and JUnit 5. Setup CircleCI for continuous integration builds.

Image Stacking (C++, CUDA, Linux) **November 2019**
Developed an image stacking application that processed multiple images to reduce the noise. The stacking process was parallelized using CUDA which improved the performance up to 500 times over the sequential process.

Gest-Talk Gloves (C++, Python, ActiveMQ, RESTful, Linux) **December 2018**
Built a smart glove using Machine Learning and IoT, to assist speech impaired people to communicate using hand gestures. The recognized gesture from the glove was converted to speech via mobile application.

AWARDS & ACHIEVEMENTS

- Awarded 3rd prize for paper “GestTalk – RealTime Gesture to Speech Conversion Glove” at 3rd International Conference on Data Management, Analytics & Innovation, KL, Malaysia
- Recipient of Excellence in Technology Award for research contributions at Persistent Systems.