

DEVASHISH UBALE

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Master of Information Technology

Aug 2022 - December 2023

Coursework: Principles of Software Construction, Intro to Computer Systems, Software Architecture, DevOps and Continuous Integration, Java for Application Programmers, Data Structures for Application Programmers, Distributed Systems, Applied Machine Learning, etc

VIT

Pune, India

Bachelor of Technology, Information Technology

Aug 2015 - May 2019

Coursework: Advanced Data Structures; Operating Systems; Databases Management Systems; Design and Analysis of Algorithms; Principles of Programming Languages; Web Technologies; System Programming; Software Engineering

TECHNICAL SKILLS

Programming: Java; Python; C; C++; C#; JavaScript; TypeScript; SQL; node.js; Debugging skills

Frameworks and tools: Docker; Jenkin; Kubernetes; Maven; SVN; GIT; GitHub; JIRA; AWS; Kafka; Terraform

Database: MySQL; MongoDB; PostgreSQL; Redis etc

PROFESSIONAL EXPERIENCE

CASOS - Carnegie Mellon University

Pittsburgh, PA, USA

Research and Development Intern | **Tech Stack: jQuery, javascript, node js, HTML5, CSS**

June 2023 - Aug 2023

- Spearheaded the development of a user-friendly interface in cyber attack simulation frameworks, driving a 56.7% increase in successful attack simulations
- Orchestrated a robust solution enabling the storage and retrieval of MITRE ATT&CK-based cyber-attack scenarios, resulting in streamlined simulation and optimized performance

TIBCO Software Inc.

Pune, India

Software Engineer (A.M.T.S) | **Tech Stack: JAVA, C, Python, REST APIs, Spring boot, node js, C++**

June 2019 – July 2022

- Designed and implemented features for the Log Management Intelligence platform that collects and correlates user activity and event data leading to enhanced data analysis and improved operational insights
- Demonstrated ingenuity by adeptly architecting and fine-tuning low-latency software solutions by seamlessly replacing Active MQ C# with JNI/JNA for the Universal Collector within an R&D project, resulting in an impressive 150% performance boost, powered by Kafka
- Empowered by the foundation of high-throughput, high-reliability microservice architectures, guided the programming, release, and deployment of vital fixes and builds through CI/CD pipelines
- Associated with all stages of the systems development lifecycle, from requirements gathering to production releases, ensuring seamless coordination and successful delivery of 3 projects on time

NVIDIA

Pune, India

Software Development, Intern | **Tech Stack: C, C++, Python, winDbg**

June 2018 – December 2018

- Crafted robust and comprehensive unit test cases for the GPU driver, fortifying its performance and reliability while ensuring top-notch quality assurance
- Aided in developing an internal diagnostic tool (checks features of GPU drivers) and improved efficiency by 28%
- Collaborated with multiple teams, driving efficient requirement identification and feature enhancements, resulting in a 15% increase in product functionality and customer satisfaction

PROJECTS

- **Facial Emotion Detection with Flask Server (2023):** Deployed an ~87.6% accurate system on AWS Elastic Beanstalk, using a Flask server for real-time emotion analysis from user-uploaded images: **Computer vision, opencv2, Python, TF, CNN, AWS**
- **CI/CD Pipeline for Pet Clinic App (2023)** created and implemented a comprehensive pipeline for the Pet Clinic App, resulting in a 53.2% reduction in deployment time compared to manual: **Jenkins, Ansible, Vagrant, Docker**
- **Multi-Threaded Whack-a-Mole Game (2022):** Showcased comprehensive full-stack Java expertise by crafting an immersive multi-threaded Whack-a-Mole game using Java Swing, demonstrating seamless concurrency management and interactive user engagement: **JAVA, Java Swing, Java multithreading** etc