Vaibhav Setia

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EDUCATION

Northeastern University, Boston, MA   Expected May 2024
Khoury College of Computer Sciences
Master of Science in Computer Science   GPA: 4.0/4.0
Related courses: Program Design Paradigm, Database Systems, Algorithms, Web Development
Teaching Assistant for CS 6200 Information Retrieval

Punjab Engineering College, Chandigarh,   June 2020
Bachelor of Technology in Computer Science and Engineering,
Related courses: Object Oriented Design, Data Structures, Web Development, Software Design

TECHNICAL SKILLS

Languages	Java, Python, C, C++, JavaScript, HTML, CSS, PHP
Tools &Platforms	Git, Postman, AWS, Kafka, Docker, Kubernetes, Jenkins, RabbitMQ
Databases	MongoDB, MySQL, PostgreSQL, ElasticSearch, Microsoft SQL Server
Frameworks	Spring Boot, React, Node.js, AngularJS, Kibana, Django, Junit, Apache Spark, OpenCV
Functional Skills	CI/CD, Agile-Scrum, Microservice Architecture, Web Development, Automation Testing

WORK EXPERIENCE

Manus Robotics, Boston, Massachusetts   June 2023 – August 2023
Software Developer Intern
- Designed a **Python SDK** and **PyQt5** GUI for an infrared sensor prototype, to reduce development effort by over **30%**.
- Built low-latency **React** browser games to demonstrate sensor's functionality by efficiently processing real-time data.

JP Morgan Chase & Co., Bangalore, India   August 2020 - August 2022
Software Developer II
- Migrated legacy **SQL** databases to ElasticSearch indexes using **GraphQL**, **SpringBoot** and **Kubernetes.**
- Achieved **60%** reduction in search latency by optimizing ElasticSearch queries and indexing.
- Redesigned various legacy **cloud** based microservices and **Java REST** APIs using various design patterns, making them more modular and reusable which reduced response time by over **90%** and increased user interaction by **20%**.
- Designed & developed **3 microservices** using **Spring Boot along with Netflix OSS,** which met all the required **NFRs**.
- Built an interactive interface in **ReactJS** and **Redux** to automate **CI/CD** pipeline creation using **Jenkins** which ensured smooth deployments and reduce manual effort by **80%**.
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Software Engineering Intern   January 2019 - July 2019
- Engineered a **Python** GUI platform for traders to automatically generate stock reports eliminating by **95%.**
- Optimized the **NoSQL** queries to fix trading logic bugs, thus bringing down per job re-run costs from 100$ to 25$.

PROJECTS

Stock Trading Platform, Java, Junit, Swing | [GitHub]   October 2022 - December 2022
- Developed a **Java**-based GUI, Stock Trading platform using OOPS concepts and builder design pattern to enhance code quality and functionality of application, reducing development time by more than **20%**.
- Tested application extensively leveraging **Junit** with **100%** code coverage and followed **SOLID** design principles to abstract code into appropriate interfaces and classes with high cohesion and low coupling.

Mindset Analysis Using Psychometric Games, Python, React, AWS, PostgreSQL | [GitHub]   August 2019 - May 2020
- Partnered with team of 5 people to develop a **web portal** of games for psychometric analysis of teachers' mindset.
- Architected and implemented games using **ReactJS** and hosted on **AWS** to ensure high availability and scalability.

ACHIEVEMENTS & LEADERSHIP EXPERIENCE

- 1st position, JP Morgan Hackathon, led a 4-person team to **automate** release deployment steps to production from **Git**.
- 1st position in IEEE India Hackathon, built desktop arcade games for **windows** and **linux** platform in **Java**.
- Part of **the CSR (Corporate Social Responsibility)** committee at JP Morgan Chase with NGO, Make A Difference (MAD).