Dhruv Malhotra

LinkedIn: www.linkedin.com/in/mdhruv1994

EDUCATION

Arizona State University

Tempe, United States

Email: dmalhot6@asu.edu

Mobile: +1-480-330-9966

Master of Science in Computer Science; GPA: 4.00

Jan 2021 - Present

Courses: Mobile Computing, Distributed Databases, Statistical Machine learning, Software Security, Algorithms, Cloud Computing

Birla Institute of Technology

Mesra, India

Bachelors of Engineering in Information Technology; GPA: 8.00/10.00

Aug 2012 - June 2016

Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Databases, Core Java

SKILLS SUMMARY

• Languages (Experienced in): JAVA, C, SQL

• Languages (Familiar with): C++, Python, JavaScript, HTML, CSS

Libraries and Frameworks:
 Spring, Spring Boot, J2EE, Struts, RESTful API, MVC, Spark, Hadoop, AngularJs
 Tools and Platforms:
 AWS, Docker, Kubernetes, Terraform, Git, Jira, GCP, Linux, CI/CD, Unit testing

• Databases: MySQL, SQLite, PostgreSQL, MongoDB, DynamoDB, Redis

EXPERIENCE

University Technology Office, Arizona State University

Tempe, USA

Part-time ERP Integrations Engineer

Feb 2021 - Present

o **Peoplesoft APIs Integration**: Involved in end-to-end development of APIs that **generate 11 reports daily** to sync ASU financial data with **Workday**. This integration reduced the information gap between stakeholders and enabled transparency by enabling **two new financial dashboards**. (Java, Mulesoft, Kubernetes, Jenkins, AWS)

Freecharge Gurgaon, India

Software Development Engineer

Dec 2018 - Dec 2020

- Campaign Tool: Reduced latency in the tool by 22% and lowered man-hours from 1.5 hr to 15 min for the marketing team to create/view promotional offers.(JAVA, Spring Boot, MySQL)
- Campaign Service: Improved 2 microservices by remodeling the design and infrastructure of monolithic services into a
 more scalable and robust system. This reduced the cost of resources by 33%, enabling the system to handle more
 than 100k active users per day.(JAVA, Spring Boot, MongoDB, Redis, AWS EC2, SQS, SNS, DynamoDB)
- Pay Later feature: Organized and led a team of 2-3 interns to launch a new functionality: "Pay-Later" for the app/website that gave customers the freedom to utilize credit and pay the dues later, providing a seamless one click payment experience.
- Recruitment Member: Interviewed 50+ candidates in recruitment drives for the company.

Ultimate Kronos Group

Noida, India

 $Software\ Engineer$

June 2016 - Dec 2018

- Store Audit: Collaborated with team of 10 members to build a new module "Store Audit" built on the existing product that was intended to help retailers monitor store operations, analyze compliance trends, and provide actionable tasks to improve store operations and ensure compliance. (Java, REST, MySQL)
- Workforce Central: Developed several features and provided innovative solutions to address customer requirements for the Workforce Central application that helps large corporations having more than 500k employees, manage workforce efficiently (JAVA, J2EE, SQL).
- WFC Notifications: Upgraded the Notification module of the product by configuring it with TLS 1.2 making the application 40% more secure and less susceptible to attacks.(Openfire, SSL, TLS 1.2)

PROJECTS

- Mobile Offloading (Distributed Computing): Developed a Distributed Computing framework that demonstrates how mobile offloading can increase both the efficiency and power consumption of a process using matrix multiplication. Designed a recovery algorithm to handle failures and reached the conclusion that distributed computing is 89.62% faster and consumes 66.67% less energy as it shares the processor load but difficult to maintain as it's implementation is complex and requires more security. (Spring '21)
- COVID-19 Self-Monitoring (Mobile App): Implemented a mobile application for self-monitoring COVID-19 symptoms, incorporating respiratory and heart rate measurement along with logging of user symptoms achieving a 98.5% accuracy for respiratory rate and 93.4% for heart rate using accelerometer and camera. (Spring '21)
- Music Recommendation System: Implemented a recommendation system in Python that suggests songs to a user based on preferences of previous users. Aim was to identify the metrics, algorithm and dataset to be used to design the recommendation system. Technique used is Collaborative filtering using matrix factorization and the implementation was done using Numpy, pandas and Tensorflow to obtain a Root Mean Squared Error of 0.956, and accuracy of 97.45%. (Fall '21)

Volunteer Experience

 Code Asylums
 India

 Mentor
 March 2020 - Dec 2020

- Mentored over 100+ people from different colleges and firms in India who participated in various boot camps organized by the company Code Asylums.
- \circ Taught Data Structures and Algorithms and prepared curriculum for 3 levels for the DSA course.