SARABJOT SINGH

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EDUCATION

University of Washington, Tacoma, WA • Sept 2020 – Dec 2021
Master of Science in Computer Science and Systems • 3.91/4.0
Technical Coursework: Operating Systems, Advance Algorithms, Object-Oriented Programming, Cloud Computing, Advance Distributed Systems, Data Structures, Machine Learning, etc.

Rajasthan Technical University, India • Jul 2014 – May 2018
Bachelor of Technology in Information Technology

TECHNICAL SKILLS

- **Programming Languages**: Java, C#, Typescript, Python, Flutter, JavaScript, Node.js, React, PHP, C++
- **Technologies and Tools:** Docker, JIRA, Bitbucket, GIT, AWS RDS, Lambda, DynamoDB (NoSQL), EC-2, Tableau, SQL- Server, Postman, Ubuntu, Asana, Salesforce, Mocha, Chai, Nightwatch.js
- **Certifications**: Red Hat Certifications - RHCE and RHCSA (2016 - 2019)

PROFESSIONAL EXPERIENCE

Slalom Build, Seattle WA – *Software Development Engineer in Test (SDET) Intern* • Jun '21 – Aug '21
- Accomplished 98% test coverage to improve feature delivery by creating complex automated tests.
- Enhanced user stories to improve product features by collaborating with developers, UI/UX, and DevOps.

Jaipur Rugs, India – *Software Developer* • Jul '18 – Sept '20
- Reduced data bottleneck in the system by 90% by switching from data entry in excel to mobile app.
- Improved data delivery by optimizing 5,000,000+ workflows by refactoring the middle layer.
- Increased customer base by 40% by migrating existing android application to flutter for android and iOS.
- Enhanced UI/UX by designing various UI modules and improved feature visibility by 200%
- Developed and managed 200+ backend REST APIs spanning across 500k datasets in SQL.
- Persuaded leadership to initiate training by showcasing the projected improvement in product utilization.

PROJECTS

Semi-automated system for exploring and fixing Open Street Maps connectivity • Jan '21 – Dec '21
- Worked closely with Microsoft on scalability and adaptability of Open Street Maps. [Open-Source project]
- Algorithmic Improvement: Replaced slow algorithms like BFS by Dijkstra and A* to optimize pre-processing of the raw data by 80%

Language & Technologies used**:** C#, HTML, CSS, JavaScript, PostgreSQL, Geo-Spatial datasets, Git, Azure

Distributed Key-Value Store • Jan '21 – Mar '21
- Created a multi-node cluster of servers using Docker and implemented membership tracking.
- Implemented 2-phase commit protocol using TCP and UDP for 'put', 'get', and 'delete' operations with thread-safe parallel programming.

Language & Technologies used: Java, bash, AWS

Fake Review Detection • Oct '20 – Dec '20
- Performed natural language processing, data analysis, data modeling, cleaning, and pre-processing.
- Achieved a class-high score of 87.17% accuracy with SVM model with more than 8000+ features.

Language & Technologies used: Python, Google Collab, Google Cloud Platform

Portfolio App • Jul '20 – present
- Designed a portfolio mobile app in Flutter as a hobby. It contains custom animations, icons, themes, firebase, and a clean UI. The app is available on **play store,** and it is also compatible with the flutter **web**

Language & Technologies used: Flutter, Android SDK, Swift, Git, GitHub Pages, DNS Routing, Google Analytics

LEADERSHIP AND EXTRACURRICULAR

- ❖ As a graduate technical assistant helped MSBA students with Azure services and MS-SQL integration.
- ❖ Member of Student Technical Fee Committee at UW, taking decisions that impacted 4000+ students.
- ❖ Earned *Special Mention* at 10th mBillion South Asia's award for TaanaBaana Mobile App in Feb '20