Faizan Mustafa Shaikh

+1 (408) 690-9094 | faizan.171997@gmail.com | https://www.linkedin.com/in/faizanshaikh17/ | https://github.com/faizan171997
San Jose, CA

EDUCATION

San Jose State University	M.S. Software Engineering	GPA: 4/4	Aug 2022 - May 2024
Pune Institute Of Computer Technology	B.S Computer Science	GPA: 8.35/10	Jul 2015 - Jun 2019

SKILLS

- **Languages** C, C++, Java, JavaScript, Python, SQL, Perl, Bash, HTML, CSS
- **Databases & Tools** MongoDB, MySQL, Oracle, PostgreSQL, Microsoft SQL Server
- **Tools & Technologies** Vim, Git, Valgrind, GDB, Wireshark, IDL Compiler, Active Directory
- **Web Technologies** React, SpringBoot, Angular, NodeJS, ExpressJS

WORK EXPERIENCE

Veritas Technologies | *Software Engineer* Feb 2022 - July 2022

- Redesigned logging mechanism for Veritas Volume Manager by introducing extended logging to allow for better debugging and greater timestamp granularity
- Used low-latency programming techniques like multi-threading, memory optimization, and network optimization, to optimize performance and ensure rapid response times in mission-critical applications
- Worked with Storage Area Networks (SAN), including configuration and management of disk groups, volumes, RAID arrays, and storage devices
- Technologies / Skills- C, C++, Java, Python, Kernel Development, NAS, Multithreading, low latency programming

Ryussi Technologies | *Associate Software Engineer* June 2019 - Feb 2022

- Reduced the RPC module's code size by 30% by implementing a state machine to handle all RPC requests received by the SMB server in a generic manner
- Spearheaded design and implementation of an approach to permit file operations such as create, open, read, write and close on SMB shares mounted on a macOS client
- Added support for the AAPL context resulting in improvement in file enumeration speed by 70% for SMB shares with a large number of files
- Collaborated with a team of 3 to enable symbolic link support for shares mounted on a windows client
- Technologies / Skills- C, C++, Java, Python, GCP, Linux File Systems, Multithreading, low-latency programming

PROJECTS

- **Spartan Stay** (February 2023): Developed a **full-stack** web application with **React** for front-end and **Node.js** with **MongoDB** for back-end. The platform aggregates data from multiple apartment websites in close proximity to San Jose State University (SJSU) and provides a centralized solution for apartment searching, price trend analysis, and best deal identification using web scraping implemented with **Selenium**
- **Campus Key NFC** (Dec 2022)**:** Designed and developed an **IoT** solution for mobile phone-based access control to SJSU campus using **ESP8266** and **PN532** NFC reader. Created an **Android** app for user interaction and a **Node+ExpressJS** server for authentication, enabling a secure and efficient method for accessing campus premises. Utilized **NFC** technology for secure data exchange between the Android app and ESP8266 authentication hardware, programmed in **Arduino C**
- **Marcus Smart Home System** (Dec 2022): Developed a smart home automation solution for users to control electrical appliances through their phones or voice. Developed **AWS lambda** and **Google Cloud functions** to enable **Alexa** and **Google Home** discovery. Assembled switchboard add-on IoT modules and used MQTT to establish communication with master **Spring Boot** service deployed on a Ubuntu server
- **EZ-Apply** (January 2023): Developed a Chrome extension which utilizes the **ChatGPT API** for generating personal responses to form questions using **JavaScript**, **HTML**, and **CSS**. Implemented user profile creation for gathering relevant information during installation. Streamlined form-filling process with the ability to generate responses from profile information.

PUBLICATIONS

Leveraging Few-shot learning architectures to tackle limited data model training, IEEE Xplore and 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA), September 04, 2021
Link: https://ieeexplore.ieee.org/document/9544909

HACKATHON

Hack for Humanity (2nd Runner Up) | *Santa Clara University* Feb 2023

Developed an Android app that shows the number of people around you and open stores to help you feel safe on empty roads. It also has a distress mode for sending SOS messages to emergency contacts. The backend of the application was developed using **Spring Boot** and it utilizes **MongoDB** for the database.

ACADEMIC WORK EXPERIENCE

San Jose State University | *Graduate Research Assistant* Feb 2023 - Present

- Graduate research assistant under Professor Younghee Park, working on the intersection of Machine Learning and Cybersecurity

San Jose State University | *Graduate Teaching Assistant* Feb 2023 - Present

- Graduate teaching assistant under Professor Abbas Moallem, for the course HCI for Cybersecurity