

# Faizan Mustafa Shaikh

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San Jose, CA

## EDUCATION

San Jose State University	M.S. Computer Science	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** Java, JavaScript, Python, C, C++, SQL, Perl, Bash, HTML, CSS
- **Cloud & Containers** Amazon Web Services, Microsoft Azure, Kubernetes, Docker, GCP
- **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.