

# Sumeet Sara

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## TECHNICAL SKILLS

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**Languages:** Java, Python, C, C++, C#, SQL, NoSQL, JavaScript, HTML, CSS, Terraform, Rust  
**Technologies:** Node.js, Express.js, JUnit, Object-Oriented Programming, REST API, Embedded Systems  
**Developer Tools:** Git, JIRA, Visual Studio, MySQL, Flask, Selenium, Amazon Web Services, Docker

## TECHNICAL WORK EXPERIENCE

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### Cloud Provisioning & QA, Intern

May 2021 – Dec 2021

*ClearDent*

*Burnaby, BC*

- Spearheaded the development and continuous maintenance of sophisticated automated test cases for cloud-based products, leveraging the power of **Selenium** and **CSS** to slash testing time by over **90%**
- Assisted in the design and implementation of effective stress, load, and performance testing procedures, resulting in optimized system reliability under demanding conditions
- Identified and reported bugs using **Jira**, actively verifying fixes, and managing issues to resolution resulting in an impressive turnaround rate and sustaining an elevated level of software quality
- Presented learnings and contributed to a successful **Agile** process by actively engaging in planning and estimation, daily Scrums, sprint reviews and retrospectives
- Conducted comprehensive code reviews, ensuring adherence to coding standards, identifying potential vulnerabilities, and promoting codebase robustness
- Employed version control systems such as **Git** to manage code changes, ensuring seamless collaboration and traceability throughout the development lifecycle

## PROJECTS

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### JAKS.edu | *AWS, Terraform, Python, JavaScript*

July 2023

- Collaborated with a team of five to develop and deploy an educational application using cloud technologies
- Utilized **Terraform** as Infrastructure as Code (IAC), to streamline the provisioning process for efficient and scalable cloud resource deployment
- Incorporated **AWS Lambda** to write and deploy server-less functions triggered by events, such as **API Gateway** requests
- Enhanced system security and enforced policy compliance by implementing user access control with **AWS IAM** for creating and managing users and roles for accessing AWS resources
- Leveraged **DynamoDB** for efficient storage and management of educational platform data

### Light Dip Detector | *Embedded Systems, C, UDP, Multi Threading, Git*

Feb 2023

- Developed a real-time monitoring system for a distributed sensor network, using **embedded systems** programming techniques and integrating various hardware components to process data in real-time
- Implemented a robust **UDP-based** communication protocol for an embedded system, utilizing **multi threading** to achieve low-latency communication and improve overall system performance
- Employed in-depth knowledge of low-level hardware interactions to ensure stable and robust data collection from sensors, contributing significantly to the accuracy and reliability of the entire monitoring infrastructure

### SFU CENTRAL | *Agile, NoSQL, MongoDB, JavaScript, Node.js, Express.js*

Jan 2021 – Mar 2021

- Collaborated within a team of four to deliver a social media web application that connects SFU students together, employing **Agile** methodologies to ensure effective development
- Architected a robust **NoSQL** database schema on **MongoDB** to proficiently manage and retrieve diverse data sets encompassing user profiles, social posts, course details, and real-time message exchanges
- Demonstrated server-side development by crafting intricate database **queries**, seamlessly implementing get and post routes, thus enabling efficient data retrieval and storage for enhanced user interactions

## EDUCATION

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### Simon Fraser University

Burnaby, BC

*BSc. Computer Science – Software Systems, CGPA 3.59/4.33*

*Sept. 2019 – Present*