

# SIDHARTH SINGH

+1(778) 536-1160 ◇ Burnaby, BC

[Email](#) ◇ [LinkedIn](#) ◇ [Portfolio](#)

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Java, JavaScript, TypeScript, Python, C++
<b>Additional</b>	SQL, Docker, Spring Boot, React, AWS Cloud, Git, MongoDB, IntelliJ Idea

## TECHNICAL PROJECTS

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<b>Full Stack Application with AWS S3 Cloud</b> <a href="#">S3 File Upload Github</a>	June 2023 – June 2023
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- Implemented back-end APIs using Spring Boot
- Developed front-end using ReactJS
- Leveraged AWS S3 Buckets to upload user profile pictures
- Integrated with GitHub Actions for Continuous Integration and Continuous Deployment
- Deployed to AWS Elastic Beanstalk

<b>Serverless vs Serverful Performance of an Ecommerce Application</b> <a href="#">Microservices Demo Repository</a>	January 2023 – April 2023
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CMPT 756: Distributed and Cloud Systems Team Project

- Performed system design and architected cloud solution
- Effectively communicated trade-offs between different solutions
- Deployed serverless and serverful MongoDB and AmazonRDS
- Utilized gRPC and Go to perform inter-service communication
- Architected multicloud database solution as GCP didn't support serverless database
- Observations:
  - p50 response time is faster for serverless
  - p95 and p99 response times are quicker by approximately 25% and 10.7% for serverful
  - One possible explanation for these disparities could be the varying resource allocation in serverless, as resources are often shared among multiple functions

## TECHNICAL EXPERIENCE

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<b>Research Assistant</b> Simon Fraser University	January 2023 – Present <i>Burnaby, Canada</i>
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- Analysed information of 400 students to expose underlying patterns in learning, encouragement and motivation
- Answering the research question "Does a gamified system designed according to learning theory aligns with observed results?"
- Submitted "Unearthing Synergies: Gamification's Impact on Student Engagement and Learning through the Lens of Self-Determination Theory" for review

<b>Software Engineer</b> ANQ Digital Finserv Private Limited	June 2022 – August 2022 <i>Bengaluru, India</i>
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- Developed the website and mobile application with Next.js and react native respectively
- Implemented a back-end APIs using Deno.js to check credit score
- Effectively communicated with UI/UX and production teams

- Worked under strong deadlines as an individual contributor
- Managed an intern for web page development

## Software Engineer

Subex Limited

March 2021 – March 2022

*Bengaluru, India*

- Utilized Angular to develop multiple web components
- Implemented Jasmine for Test-driven Development in Angular
- Updated CI/CD bash scripts which prevented creation of Keycloak Database
- Developed multiple REST APIs using Spring Boot
- Provided sessions on Ubuntu, Docker and Keycloak saving about \$1000 for training and days worth of training
- Managed back-end issues by requesting ownership, saving 3-4 days of development effort per sprint
- Articulated system design for micro services during sprint planning based on customer feedback
- Setup local remote dev environment for team during a cyber-attack on the company that saved about 7 days of development setback

## Freelance Software Engineer

GeoMeo

March 2020 – July 2020

*Madurai, India*

- Effectively communicated with the client to understand their business requirements
- Provided a series of solutions adhering and adapting to the client needs
- Developed a chat bot using IBM Watson that provides COVID information
- Applied IBM code patterns to develop a framework for Android activity to enhance speed
- Implemented IBM's Web Scraper to gather FAQs saved development effort on custom scraper

## EDUCATION

**Masters of Computer Science**, Simon Fraser University

September 2022 – Present

**Bachelors of Information Technology**, SRM University

July 2015 – May 2019

## AWARDS AND PUBLICATIONS

Name	Type	Status
Innovation Award	Award	Granted
Unearthing Synergies: Gamification's Impact on Student Engagement and Learning through the Lens of Self-Determination Theory	Publication	In-review

## CERTIFICATIONS

Name	Issuer	Issued On
Postman API Fundamentals Student Expert	Postman	June, 2023