

# Govinder Somal

Tel: 209-407-0241 | Email: gsomal99@gmail.com | LinkedIn: <https://www.linkedin.com/in/govindersomal/>

## SUMMARY

Results-driven Software Engineer with over 4 years of experience specializing in high-performance computing, distributed systems, and web development. Strategic Software Engineer skilled in application development, testing and optimization. Proven ability to lead teams and leverage full-stack expertise to deliver scalable and secure applications. Recognized for innovative problem-solving skills, proficient in rapid prototyping and design of robust solutions to complex problems. Committed to creating efficient, reliable software that impacts millions of users, pushing the boundaries of technology to transform businesses.

## SKILLS

Collaboration Skills: Project Leadership, Software Development Lifecycle, Project Management, Oral and Written Communications

Programming Languages: Java, C++, JavaScript, Kotlin, Swift

Tools and Libraries: Junit, Maven, Postman

Cloud / Devops Tools: AWS Technologies, Google Cloud Platform, Microsoft Azure, Jenkins, Ansible

Software: Git, MS Professional, MS Project, Visio, Excel

Databases: MongoDB, MySQL, DynamoDB, FireBase

## PROFESSIONAL EXPERIENCES

Software Engineer, HiTech Solutions Inc, September 2020 - Current  
San Jose, CA

- Led and managed a Project Portfolio with successful Cloud implementations at Fortune 500 companies.
- Oversaw Cybersecurity infrastructure, Cloud computing, and engineering using AWS.
- Developed and implemented numerous projects using Java, Python, and C++ to enhance functionality and user experience.
- Worked closely with development team members to identify and remove software bugs.
- Provided Cloud systems support for over 2000+ users.
- Participated in agile development of products within cross functional frameworks.
- Designed and developed scalable software within a scrum team.
- Conducted project planning, design, analysis, testing, and implementation of Cloud & Enterprise Resource Planning systems.
- Performed root cause analysis of problems, documented faults in tracking system and generated daily reports.
- Maintained and supported Cloud Production environments, including programming, database maintenance, application security, and troubleshooting.

## PROJECTS

Hotel Booking Application

- Designed and developed a full-stack application for customer login and booking.

- Utilized AWS resources such as DynamoDB, AWS Lambda, Amazon API gateway.
- Implemented a frontend using HTML, CSS, JavaScript.

#### Workout Tracker Application

- Designed and developed a full-stack application for workout tracking.
- Utilized AWS Elastic Beanstalk, Okta single sign-on, Jenkins, and MongoDB.
- Developed an intuitive UI for exercise logging and progress visualization.

#### Quantum Computing Optimization for Machine Learning

- Worked on a team using Quantum Annealing (QA) to improve the optimization of Machine Learning (ML) models. The goal was to increase accuracy by 1-2% and reduce convergence time by 20-60%.
- Led the development of the QUBO min/loss section, which compared Classical ML with Quantum ML, contributing to the project's progress significantly.
- Developed a user interface for visualizing the QUBO Min Loss results, allowing users to effectively compare Classical ML and Quantum ML performances.

## **EDUCATION**

### Masters in Software Engineering

San Jose State University, San Jose CA, May 2023

- 3.9 GPA

### Bachelors in Computer Science

California State University East Bay, Hayward, CA, May 2021

- 1<sup>st</sup> place Winner at CSUEB Hackathon 2020