

Jacob Sim

Northern California area | simjacob1@gmail.com | [My Website](#) - jsimu0.github.io/jsimu0/

Profile

Highly motivated and results-driven individual looking to fill a role in software engineering. Will work efficiently by building new relationships, learning new skills, and utilizing prior experience on the job.

Education

COMPUTER SCIENCE | SACRAMENTO STATE UNIVERSITY | FALL 2021 – SPRING 2025

- **Grade:** 3.3 GPA
- **Senior Project:** Built and deployed a full-stack Next.js web application on Vercel for a medical recruiting platform, emphasizing data security and responsive UI design

Experience

SOFTWARE ENGINEER | CALIFORNIA DMV | APRIL. 2023 – PRESENT

- Designed and deployed RESTful microservices using Golang, Node.JS, and Python across AWS & Azure, focusing on performance and security
- Built event-driven data workflows for high-volume database synchronizations using Lambda & Glue
- Modernized legacy z/OS mainframe databases by migrating datasets into AWS RDS PostgreSQL, enhancing reliability, accessibility, and downstream integration across DMV services
- Implemented enterprise-grade authentication and authorization standards using Azure OAuth 2.0, SAML, and IAM-based role policies for secure service-to-service communication
- Developed CI/CD pipelines on GitHub Actions with Terraform & AWS CloudFormation to automate deployments across three different environments
- Collaborated in an Agile environment, participating in sprint planning, code reviews, and technical design discussions to deliver scalable, production-ready cloud services
- Designed user-focused forms and streamlined service workflows using Salesforce

SOFTWARE ENGINEER INTERN | CALIFORNIA STATE PARKS | SEPT. 2021 – APRIL 2023

- Maintained and enhanced ASP.NET MVC web applications using C# in Visual Studio 2022, supporting financial and administrative workflows across multiple divisions
- Managed full development lifecycle using Azure DevOps, including Git version control, sprint planning, CI/CD pipeline configuration, and release management
- Built automated ETL processes to extract and transform financial data for reporting
- Supported database administration tasks – writing SQL queries, database performance, and schema design
- Collaborated with developers and business stakeholders to implement new features, enhancements, and deploy applications

ASSOCIATE SYSTEMS ADMINISTRATOR | CMI TECHNOLOGY GROUP | AUG. 2016 – SEPT. 2021

- Configured and supported IT infrastructure for local businesses throughout the Central Valley
- Gained introductory web developer experience

Technical skills

- **Languages:** Java, C/C++, Go, Python, C#, JavaScript/TypeScript, SQL
- **Cloud and DevOps:** AWS Services, Terraform, GitHub Actions, Azure DevOps
- **Frameworks & Tools:** .NET, Next.js, React, ASP.NET MVC
- **Databases:** PostgreSQL, DynamoDB, MongoDB, IBM DB2
- **Certifications:** AWS Certified Developer – Associate (DVA-C02)