Sukhveer Sohi

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🖥 iamsohi.github.io/portfolio/

github.com/IamSohi

⚙ TECHNICAL SKILLS

Programming	JavaScriptES6 TypeScript Python HTML5 CSS3 SQL java PHP Langchain
Frameworks	Next.js React(Redux) Django Express.js Material-UI AWS Amplify JavaFX Firebase Serverless Terraform
Platforms	AWS (S3, ECS, Lambda, Step Functions), Azure Linux Node.js Nginx Git(version control) Ubuntu Arduino ROS
Authentication	NextAuth.js Firebase Auth0 AWS-Cognito Okta
Testing	React-Testing-Library JEST Selenium Postman
CI/CD	Docker Docker-compose Jenkins Bitbucket-Pipelines GitHub(Web-hooks) Microservices AWS-CodePipeline
Collaboration	JIRA Confluence Slack MS-Teams Github-Projects Monday.com
Others	LLMs (Prompt Engineering, OpenAI API, Chatbots) MySQL MongoDB PostgreSQL WebRTC AWS-STS MVC Kanban(Agile)

💼 EXPERIENCE

AWS Software Engineer
John Deere

08/2022 - 04/2024   *IOWA, US*

Achievements/Tasks

- **Spearheaded** the design and implementation of a **YAML-driven microservice** for automated letter generation, eliminating manual entry and boosting productivity by **over 70%** , resulting in faster processing and improved accuracy.
- **Achieved a 90% reduction** in processing time from 5 hours to 30 minutes by migrating legacy batch jobs to AWS with Step Functions, significantly **enhancing** workflow efficiency through an event-driven model.
- Engineered and optimized AWS ECS microservices for **large-scale data processing**, utilizing streaming techniques for efficient handling and validation of multi-gigabyte files, ensuring performance and continuous accuracy updates.
- **Reduced** processing time by over **80%** by refactoring a microservice for high-volume API requests, **ensuring** timely data delivery and **improving** response times significantly.
- Architected robust APIs enabling seamless real-time access to resources for business users, boasting an exceptional **success rate of 99.9%** and effortlessly handling **tens of thousands of hits**.

Web & Cloud Engineer (Contractor)
ezPT Technologies Ltd.

01/2021 - 11/2022   *SURREY*

Achievements/Tasks

- Engineered a comprehensive full-stack web platform aimed at enhancing patient-therapist interaction in treating physical injuries, leveraging a web application and healthcare device to deliver real-time analytics and drive engagement.
- **Slashed production time by 96.7%** by implementing a containerized deployment strategy with Docker and Jenkins for CI/CD pipelines, while **optimizing** resource usage through a multi-container setup on a single EC2 instance.
- Championed the implementation of **Kanban agile methodology** and played a pivotal role in establishing a DevOps environment, drastically reducing lead time and facilitating rapid feedback iterations.
- Tested with JEST and Selenium, ensured **HIPAA compliance**, and improved security.

EXPERIENCE

Full-Stack Web Developer
Tellext Inc.

12/2021 - 05/2022   *VANCOUVER*

Achievements/Tasks

- Engineered **WebRTC**-based solution, **reducing Linux robot teleoperation latency by 90%**.
- Led **Automated Testing** adoption, utilizing JEST, React testing library, and Selenium, **cutting release time by 58%.**
- Constructed secure, scalable **RESTful APIs** with AWS **API gateway, lambda services**, catering to dynamic user inputs.
- Improved **video streaming security** via AWS lambda issuing temporary STS tokens.
- Implemented **Git flow** for frontend application, enhancing **code control and reducing conflicts**.

PROJECTS

AI-Powered Collaborative Writing Platform (WIP)
- Developed a real-time writing tool using LLMs and integrated OpenAI API for contextually aware suggestions, enhancing user productivity with advanced feedback on grammar, tone, and style.
- Built with Next.js, TypeScript, Node.js and MongoDB, deploying to AWS to ensure scalability and low latency for multiple simultaneous users

DevOps - CI/CD with AWS
- Developed and automated a CI/CD pipeline utilizing AWS services including **CodeCommit, CodeBuild, CodeDeploy, and CodePipeline.**
- Deployed a pre-built website to development and production environments on AWS EC2 servers using the **Blue-Green deployment** strategy.

Professional Portfolio
- Implemented and deployed a professional portfolio in React, showcasing **responsive web design** and interactivity.
- Programmed using JavaScript ES6, HTML5, CSS3, and Material-UI. **Accessible at** https://iamsohi.github.io/portfolio .

TODS- JAVA POS system
- Collaborated with four students to plan, code, test, deploy, and present a **Java** and **SQL** Point-of-Sale system.
- Followed **Agile** with biweekly Sprints, ensuring software quality through **functional tests**. Also, documented the project and user manual, accessible at https://github.com/IamSohi/TODS .

IdoToday- Full Stack Web Application
- Developed a real-time networking website with integrated instant messaging service, achieving **SEO optimization** with a PageSpeed of 3 seconds. Available at https://web.archive.org/web/20171005030146/https://www.idotoday.net/regist/login .
- Utilized the **CodeIgniter** framework, **PHP, SQL, Node.js, Nginx, Apache servers** at the **back-end**, & **JavaScript, jQuery, HTML5, and Bootstrap** at the **front-end**. Deployed on AWS remote web servers with load balancing for efficient traffic management, coupled with **SSL/TLS encryption**.

EDUCATION

Computer Science & Information Tech.
KWANTLEN POLY. UNIVERSITY, SURREY

05/2018 - 05/2020   *Overall GPA: 3.87*

CERTIFICATES

Prompt Engineering and Langchain Courses (08/2024 - Present)
Mastered prompt engineering techniques for ChatGPT and developed custom chatbots using LangChain, effectively utilizing diverse data sources to enhance personal and business applications.

Coursera Deep Learning Specialization (03/2019 - 06/2020)
Acquired practical expertise in deep learning, emphasizing Convolutional Networks, RNNs, LSTMs, Adam optimization, Dropout, Batch Normalization, Xavier/He initialization, Natural Language Processing (NLP), and Sequence Models.