David Liao

Cloud Software Engineer

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github.com/liaocanada

Certifications

- **AWS Solutions Architect - Associate** (2020)
- **AWS** Cloud Practitioner (2019)
- Oracle **Java** SE 8 Professional (2019)

Skills

Infrastructure
- **Amazon Web Services** (certified)
- Terraform
- Ansible

Programming Languages
- Java 8 (certified)
- JavaScript/TypeScript

Web Development
- React
- Node.js
- Spring Framework
- ASP.NET Core

Involvement

Community
- **AWS Educate Student Ambassador** (first cohort)
- Peer Mentor @ Science Student Success Center
- VP Communications @ Carleton CyberSec Club
- Teaching Assistant

Professional Development
- AWS Public Sector Summit
- cuHacking
- BSides CTF (Ottawa, Boston)

Education

Carleton University
Bachelor of Computer Science
Computer Security Stream
Sept 2018 to April 2023
GPA: 11.9/12.0

Work Experience

Coveo Sept 2020 to Present
Cloud Infrastructure Engineer
- Managed and versioned **AWS infrastructure** using **Terraform** to consistently support **7+** microservices across multiple environments
- Created key metric visualizations on **monitoring dashboards,** providing more accurate insights on **customer experience** and **system health**
- Developed **unit tests** when implementing new features to ensure **software quality** and to boost confidence within the development team

Environment: Java, C#, Terraform, AWS Lambda, API Gateway, RDS, ECS, ECR, Docker, Grafana, Graphite, Spring, ASP.NET Core, Mockito, Jenkins

NewPush June 2019 to Dec 2019
Developer
- Transformed large amounts of data and served it to clients through **12 web APIs**, while providing **live documentation** using Swagger
- Reduced API request times by 90% by implementing a **data cache** for commonly requested data
- Used Jira in an Agile lifecycle to enhance team focus and coordination

Environment: TypeScript, Node.js, Nest.js, Swagger, Angular, Jest, Supertest, Docker, Jenkins, Jira, Bitbucket, Confluence

New Portal Corp Feb 2018 to May 2018
Software Developer
- Developed an **employee management system** to be used by the Human Resources department using Spring MVC and JSP/Servlet
- Used MySQL and Hibernate to aid data persistence within the application
- Built and configured an Ubuntu Linux VM instance on Google Cloud Platform, and **deployed** the web application onto it

Environment: Java, JSP/Servlet, HTML 5, CSS, Bootstrap, Spring MVC, Spring Security, Hibernate, MySQL, Google Cloud Platform, Apache Tomcat

Projects

Online Bookstore
Developer + Infrastructure Engineer (Team of 2)
An imitation serverless e-commerce bookstore, with insights on sales data.
Environment: JavaScript, React, Next.js, AWS API Gateway, Lambda, Aurora Serverless, S3, CloudFront, Route 53, Cognito, Batch scripts

FlaminGo Travel Planner
Backend Lead (Team of 4)
A travel planner which suggests travel destinations, tourist attractions, hotels, and restaurants based on the user's budget for money and time.
Environment: Java, JavaFX, Google Cloud Places APIs, Zomato API

CareerCounsel
Lead Developer (Team of 2)
A tool that generates insightful statistics based on real-time job postings, to to help job seekers make better career decisions.
Environment: JavaScript, React, Cheerio, AWS EC 2, Lambda, S3, Code-Pipeline, Route 53, Google Domains