David Liao

AWS Certified Solutions Architect

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Certifications

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

Skills

Infrastructure
- Amazon Web Services
- Terraform

Programming Languages
- Java
- JavaScript/TypeScript

Web Development
- React
- Nest.js
- Swagger.js
- Spring MVC

Involvement

Community
- **AWS Educate Student Ambassador** (first cohort)
- Peer Mentor @ Science Student Success Center
- Teaching Assistant

Professional Development
- **AWS Public Sector Summit Ottawa** 2019, 2020
- CUSEC 2020
- cuHacking 2019, 2020
- BSides CTF

Education

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

Work Experience

NewPush   June 2019 to Dec 2019
Developer
- Transformed large amounts of data and served it to clients through a set of **web APIs**, while providing **live documentation** using Swagger
- Reduced API request times by up to 90% by implementing a **data cache** for commonly requested data
- Developed **unit** and **E2E tests** using Jest to ensure software quality and to boost confidence within the development team
- 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

Grade A Labs   July 2018 to Aug 2018
Web Programmer
- Developed a **cross-platform React application** based on a business startup proposal with very flexible requirements
- Discussed interface designs with the client, and enhanced the presentation layer using React Semantic UI and CSS

Environment: JavaScript, React, Meteor, MongoDB, React Semantic UI, CSS, Node.js, Express, React-Google-Maps

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 + Administrator (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 EC2, Lambda, S3, Code-Pipeline, Route 53, Google Domains