

# David Liao

Cloud/Web Developer

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github.com/liaocanada



## Certifications

- **AWS** Cloud Practitioner (2019)
- Oracle **Java** SE 8 Professional (2019)
- Oracle **Java** SE 8 Associate (2017)

## Skills

### Infrastructure

- Amazon Web Services
- Docker/Kubernetes

### Programming Languages

- Java
- JavaScript/TypeScript

### Web Development

- React
- Angular
- Nest.js + Swagger.js
- Spring MVC

## Involvement

### Professional Development

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

### Community

- Mentor @ Science Student Success Center
- Teaching Assistant
- Custom Christmas Plaques Organizer

## 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, HTML5, CSS, Bootstrap, Spring MVC, Spring Security, Hibernate, MySQL, Google Cloud Platform, Apache Tomcat

## Projects

### Online Bookstore



Developer + Administrator (Team of 2)

A static serverless e-commerce bookstore, with insights on sales data.

**Environment:** JavaScript, React, Next.js, AWS API Gateway, Lambda, RDS PostgreSQL, S3, CloudFront, Route 53, React-Bootstrap, CSS, 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 help job seekers make better career decisions.

**Environment:** JavaScript, React, Cheerio, AWS EC2, Lambda, S3, Code-Pipeline, Route 53, Google Domains