

DAVID LIAO

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Result-focused software engineer and student with a keen interest in cloud infrastructure and web development. Actively applies knowledge from 4 AWS/Java certifications into internships and personal projects. Looking to make an impact through constant inquisitive learning and community engagement.

EXPERIENCE

JUNE 2019 – DECEMBER 2019

DEVELOPER

NEWPUSH, REMOTE

- Transformed large amounts of data and served it through **web APIs**, while providing **live documentation** using Swagger
- Reduced web API request times by up to 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

JULY 2018 – AUGUST 2018

WEB PROGRAMMER

LAUNCHFORT, OTTAWA, ONTARIO

- 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

FEBRUARY 2018 – MAY 2018

SOFTWARE DEVELOPER

NEW PORTAL CORP, OTTAWA, ONTARIO

- Developed an **employee management system** to be used by the Human Resources department using Spring MVC and JSP/Servlet
- 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

TEAM OF 2

E-COMMERCE BOOKSTORE



DEVELOPER + INFRASTRUCTURE ENGINEER

An e-commerce bookstore built on serverless technologies. Developed with a focus on best practices for scalability and security against various types of cyber attacks.

ENVIRONMENT: JavaScript, React, Redux, React-Router, AWS API Gateway, Lambda, Aurora Serverless, Cognito, S3, CloudFront, Route53, Batch scripts

TEAM OF 4

FLAMINGO TRAVEL PLANNER



BACKEND LEAD

A travel planner which suggests travel destinations, tourist attractions, hotels, and restaurants based on the user's budget for money and time. Built as part of cuHacking 2020.

ENVIRONMENT: Java, JavaFX, Google Cloud Places APIs

CERTIFICATIONS

AWS CERTIFIED SOLUTIONS ARCHITECT – ASSOCIATE (2020)

AWS CERTIFIED CLOUD PRACTITIONER (2019)

ORACLE CERTIFIED JAVA SE 8 – PROFESSIONAL (2019)

ORACLE CERTIFIED JAVA SE 8 – ASSOCIATE (2018)

INVOLVEMENT

COMMUNITY

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

PERSONAL

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

EDUCATION

SEPTEMBER 2018 – APRIL 2023

BACHELOR OF COMPUTER SCIENCE, CARLETON UNIVERSITY

- Dean's List all terms to date
- Espial Scholarship in Computer Science (2019)
- Related coursework in Data Structures & Algorithms, Object-Oriented Design & Programming, Relational & NoSQL databases, and Web Development
- **GPA:** 11.9/12.0