HAO ZHONG

@ zhong5930@gmail.com

TECHNICAL SKILLS

\$ 226-978-7687

Development Languages

Java	JavaScript	Python C		
C++	Assembly	Matlab		

Frameworks

Flask	Django	Node	e.js	RESTful
Spring	Server	ess	Expre	ess

Databases

Postgr	eSQL	MySQL	SQLite					
Tools								
AWS	Git	Jenkins	Docker					

Postman Tomcat VirtualBox

PROJECTS

Coursera

- Machine Learning (Python)
- Control of Mobile Robots (Matlab)

Distributed Charity System

• Programmed in **Python** to implement a distributed and decentralized charity management system by **Blockchain** to increase donation transactions transparency

MarText

• Programmed in **React** to achieve an offline distributed marketplace through text

Remote Control Car

• Programmed in **C** to implement the self-driving function, which allow the car driving obey on tracker sensors and object avoidance sensors to follow the line on the ground

EDUCATION

University of Waterloo

- Bachelor of Applied Science in Computer Engineering
- Relative Courses: Algorithms and Data Structures, Autonomous Vehicles, Operating System, Compilers, Database, Networks, Distributed Computing

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in LinkedIn: haozhong1234

WORK EXPERIENCES

Software Engineer | Capital One

🛗 July 2021 - Present

🕈 Toronto, Ontario

- Implemented front-end reusable components for a web-based call center servicing tool by **Vue** and developed back-end server by **Java**
- Created unit and functional tests by Jest, Cypress, Mountebank and JUnit with 100% unit test coverage, and verified UI accessibility by Evinced
- Deployed and maintained applications by AWS Connect, EC2, and RDS

R & D Engineering Intern | FinVentures

September – December 2020

♥ Waterloo, Ontario

- Developed back-end server for a course purchasing application in Java, Maven and Spring Boot to allow client load/spend/transfer course credits
- Configured the authorization system in **OAuth 2.0** to enable the application to obtain limited access to user accounts on the back-end server
- Designed database tables in MySQL to store user account and transaction history
- Implemented advanced SQL query to detect suspicious transactions based on multiple suspicious transaction indicators provided by FINTRAC

Software Engineering Intern | Capital One

🛗 January – April 2020

♥ Toronto, Ontario

- Built a REST API to obtain product details using **serverless** architecture on **AWS Lambda** with **Application Load Balancer/Route53** for load balancing and routing
- Designed API architecture, endpoints, parameters, response payload, and analyzed security risks and API performance
- Developed reusable **React** components with 100% **Jest** unit test coverage for Capital One's UI library, reducing the size of frontend codebases by up to 50%
- Configured **CI/CD** pipelines using **Jenkins** and **Terraform** to automate the versioning, packaging, testing and deployment of packages

Full Stack Developer Intern | IBM

May – August 2019

🕈 Ottawa, Ontario

- Designed and built dashboard configuration **React** components to a cloud security application with **Redux** to allow user customize dashboard contents
- Created RESTful endpoints in a Flask and Python back-end driven by SQLAIchemy
- Implemented background tasks and reduced project loading/refreshing time by 6%

Java Developer Intern | CGI

🛗 September – December 2018

♥ Markham, Ontario

- Developed new features to a portfolio management platform in Java and MySQL
- Provided 80% or better code coverage by creating unit tests using $\ensuremath{\textbf{JUnit}}$
- Worked in the Agile development environment to deliver new features quickly

Node.js Developer Intern | OpenText

🛗 January – April 2018

♥ Waterloo, Ontario

- Built back-end logic for whitelist feature with **Node.js** and **PostgreSQL** for a cloud storage platform to allow admin user adding granted users to access the platform
- Designed back-end logic to reduce bulk importing CSV time by 5%
- Improved unit and integration test coverage up to 90% using Mocha