ZI GAO

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▶ Skills

LANGUAGES

Python
JavaScript (ES6)
TypeScript
Java
C++

TECHNOLOGIES

Node.JS
Express.JS
Flask
React.JS
HTML5/CSS3
Tensorflow
Android Studio
SQL

ADDITIONAL SKILLS

Git VC
Object Oriented Programming
Data Structures and Algorithms
Bash Scripting
Linux
Docker

▶ Education

University of Ottawa
Bachelor of Software Engineering Expected 2021

Coursera - Stanford University
Specialisation in Algorithms

Coursera - University of Michigan
Web Development

Coursera - Stanford University
Introduction to Machine Learning

▶ Employment

Wind River Systems (formerly Intel Corp) · Ottawa, ON
Software Intern · May 2018 to Aug. 2018

- Currently working on a neural network model using TensorFlow to dynamically detect, analyse, and diagnose test case failures (personal initiative)
- Designed and programmed a priority queue target reservation system, using Python and Flask, significantly reducing wait times and request collisions
- Ported all dev and test environments to Docker and Vagrant, and developed bash setup scripts, eliminating environment issues and reducing setup time by 90%.
- Created automation test code for scheduled/regression testing in C and Python
- Implemented symmetric multi-processing code for VxWorks GuestOSes
- Trained new COOPs on core product infrastructure and test plans
- Practiced software development and testing using Agile methodology

Freelance · Ottawa ON
Full-Stack Web Developer · June 2017 to Current

- Designed UI and UX, created mockups, and wireframes
- Programmed website front ends using React, jQuery, HTML and CSS, Bootstrap
- Developed back end code using Node + Express, and Flask
- Stored and queried data using MongoDB and Firebase realtime DB
- Configured online server hosting services and domain names

▶ Projects

LynqUp : Social Media Side Project - TypeScript, Node.JS, Express.JS, React.JS ·

- Developed back end friend graphs and user account infrastructure
- Implemented a friend and event recommendation algorithm
- Designed a calendar merge function to find available time slots for multiple users
- Created dynamic front end views using React.JS

ParkMe - AWS, Google Maps API, Node.JS

- Implemented AWS Rekognition API to parse important text (e.g. date and time, parking duration) from parking sign pictures taken by users
- Validated user input and stored information as nodes in Firebase DB
- Loaded available parking locations on Google Maps using Maps API
- Led team to successful project completion in under 24 hours at uOttaHack

Virtual Fighterz (Street Fighters on Kinect) - Processing, Java

- Created a virtual fighting game where the camera picks up the player's joints via image processing and tracks them
- Implemented a two player fighting mode connected via network
- Designed a custom and efficient unit collision detection algorithm

More Projects can be Found at ZiGao.io and on my Github ·

▶ Awards

HackerRank Competitive Programming Silver Medal	2018
Placed in top 10% of competition	
Governor General of Canada Academic Medalist	2017
97 Average Gr.11, 98 Average Gr. 12	
Canadian Computing Competition Certificate of Distinction	2017
Schulich Foundation · **Schulich Leader Nominee**	2017
University of Ottawa · **Chancellor's Scholarship Finalist**	2017
University of Waterloo · **Waterloo Mathematics Contest Certificate of Distinction**	