ROBERT NICHITA

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Key Skills

C/C++	Jira & Scrum (Kanban & Charts)
Python / Django	Docker/Compose
Java	OpenCV Image Processing
Node.js / Express.js	Embedded Systems
MySQL, MongoDB, Firestore	Linux Ubuntu/Debian/Alpine
Git/Github Version Control	Problem Solving
Amazon Web Services(AWS)	Teamwork
Javascript / Angular	Leadership
VSCode/Eclipse/IntelliJ	Articulating Technical Concepts
PowerShell/Bash	Quickly Learn New Technologies

Education

University of Toronto, 2018 - Present

Honours Bachelor of Science, Computer Science Specialist (Software Engineering Stream) - 3.42 GPA

3rd Year, 2nd Semester

Work Experience

Junior Developer, Altairix Inc.   September - December 2019

- Completed projects contributing to the Student Assessment Administration Portal
- Developed Java service calls on a service-oriented architecture to handle REST requests
- Used an Object Relational Model to perform CRUD operations with a MySQL Database, facilitating data persistence for these service calls
- Designed User Interfaces, and implemented them using the google web toolkit (GWT), styled with CSS
- Designed a new webpage element for the company's development framework. Presented the element's design and functionality to the partners for review and feedback. Later implemented this element on a webpage.
- Handed over in-progress work to other employees at the end of work term with instructions

Independent Contractor, KitchenMate   Aug 2018

- Manufactured various parts and assembled them into a Smart Cooker
- Participated in daily standup to update my status, suggesting improvements to manufacturing workflow and business practices

University Projects

Food Service Webapp   Jun 2020 - Present

- Dockerized Django backend, Angular frontend and Nginx reverse proxy to facilitate reproducible builds between development and production builds. Configured bridge network to allow proper reverse-proxy functionality between containers.
- Created AWS EC2 instance for remote server with appropriate security groups for our deployment to run securely. Assigned Elastic IP to keep instance at the same address overtime making our deployments simpler.
- Created framework for seeding databases with randomly generated data based on the Faker library, with an emphasis on making it easy to add and change seeding algorithm based on new database schemas.
- Implementing chunked file uploads to allow arbitrarily large file uploads for videos. Uploading to Google Media Storage to avoid filling small free storage space on AWS server.
- Used Jira task board and automated reporting to keep track of team progress and facilitate scrum process

Personal Projects

Ingest - Hack the valley 4 submission   **Feb 2020**
- Top 10 hackathon submission at https://devpost.com/software/kjdshdkja
- Created a backend server using expressjs for a news aggregation webapp.
- Integrated with python keras machine learning script from js backend, allowing for multiple asynchronous calls in parallel.

Doodle Jump Game   **June 2017**
- Created 3D C++ based clone of doodle jump using OpenGL library.
- Implemented 3D model loading algorithm in C++ for 3D models stored in the .OBJ filetype which allowed for better looking assets and faster framerates than polygon stitching techniques learned in class for rendering complex 3D objects.

Extracurricular Activities

FIRST Robotics Team 1334 Programming Lead   **September 2016 - June 2018**
Oakville Trafalgar High School, Oakville, Ontario, Canada
- Created control systems for Linux based robots, organizing the Java, Python and Bash codebase in Git
- Developed image processing and sensor integrations for autonomous control of robots
- Trained and managed junior programmers
- Made presentations to sponsors explaining programming achievements raising $5000.
- Provincial Quarter - Finalists in Ontario 2018