

Russell Islam

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SKILLS

- Languages: Python, Java, C++, JavaScript, Bash, SQL
- Web Development Tools: Node.js, Express, React, Flask, Django, NGINX
- Infrastructure Tools: Docker, AWS (EC2, Lambda, Kinesis, RDS, S3), Jenkins, Kafka, Terraform

EDUCATION

UNIVERSITY OF WATERLOO | BAsC Computer Engineering

Sept 2017 - Apr 2022

GPA: 3.7/4.0

- Awards: 3A Term Dean's Honours List (Rank 14/181), President's Entrance Scholarship
- Extracurriculars: Watonomous (Self - Driving Car Team), UW Data Science Club

EXPERIENCE

AUTODESK | Back End Software Engineering Intern

Sept 2020 - Pres

- Developing APIs for the Autodesk Forge platform which are used to interface with cloud file systems
- Maintaining Java Spring Boot applications and integrating new features which leverage Spring tools
- Improved Jenkins CI deployment process of core repositories, ensuring robustness of builds

CAPITAL ONE | Software Engineering / SRE Intern

Jan 2020 - Apr 2020

- Independently created patent-pending enterprise wide Python package to verify AWS infrastructure
- Integrated said package into all AWS pipeline deployments via Jenkins which eliminated up to 5 days (100%) of deployment time from the production infrastructure change process
- Designed and deployed server-less infrastructure for AWS Lambda, Kinesis and Kafka pipelines responsible for detecting double charges in customer transactions and notifying users in real time
- Removed superfluous Lambda functions from AWS pipelines, reducing resource usage by 20%

CLEARPATH INC. | Back End Software Developer Intern

May 2019 - Aug 2019

- Redesigned Virtual Robots infrastructure by using ROS2, yielding in 28% less memory used per robot
- Implemented pipeline testing capabilities using GitLab CI which attained 80% code coverage
- Developed new REST APIs used across multiple teams to speed up workflow of managing robots

ESENTIRE INC. | Back End Software Developer Intern

Sept 2018 - Dec 2018

- Created a Flask API to communicate with a Postgres database to optimize network packet inspection
- Developed a REST API using Flask for parsing NetFlow data and collecting metrics related to traffic
- Constructed robust unit tests using Python libraries such as Mock, covering 70% of the codebase

PROJECTS

REDDITMAKESART | Python, JavaScript, AWS (EC2, Lambda, RDS), React, Flask, NGINX

- Web application which acts as a showcase for daily top art content created by Reddit users
- React front-end with Flask back-end, using AWS EC2, RDS, Lambda with NGINX as a web proxy

VIM SPOTIFY | JavaScript, React, Express, Node.js, Spotify API

- Custom Spotify web client which provides user interaction with any active device using Vim hotkeys
- Provides functionality such as play/pause, seek forward/backward and toggle shuffle/repeat