Cody Antonio Gagnon

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SKILLS

- **Languages:** Java, Python, JavaScript, Shell Scripting
- **Tools & Platforms:** Linux, Git, Flask, React, Azure, AWS, GCP, Serverless, Ansible, Terraform, Docker, Azure IoT Hub

EXPERIENCE

Makerspace Student Technician
University of Washington, Global Innovation Exchange

Nov. 2019 – Present
Bellevue, WA

- Wrote auto-generating resource deployment script with Azure's Python SDK, which creates 40 IoT devices to connect the GIX cohort and includes a dashboard facilitating interaction between devices using serverless functions and Azure IoT Hub.
- PR for Microsoft's Azure IoT Hub library for Arduino, which saves users a minimum of 20 hours by automating required ESP8266 & ESP32 board configuration initially required to use the library.
- Developed Microsoft Power Automate flow with over 450 downloads to implement missing functionality in the Microsoft Teams Shifts app, which copies events to Outlook or Google Calendar for you and your work team.

Software Engineer (Volunteer)
University of Washington, CoMotion MakerSpace

Aug. 2017 – Sept. 2019
Seattle, WA

- Automated processing of 5000+ quizzes and response emails for Makerspace access using JavaScript.
- Reduced HTTP requests from 86,400 to < 500 per day by re-engineering the check-in system with Flask, React, Docker, webhooks and websockets.
- Developed access control system for lasercutters using an Arduino UNO, saving at least $400/year in lens costs and increasing Makerspace safety.

Cloud Engineer
Refactr, Inc.

Aug. 2018 – Dec 2018
Seattle, WA

- Performed Quality Assurance (QA) for releases of an enterprise web app to deliver features to SaaS customers.
- Wrote Infrastructure-as-Code (IaC) templates with Azure Resource Manager, AWS CloudFormation, and Google Deployment Manager as components for reuse by customers.
- Implemented automated configuration of remote Windows hosts to support customer workflows.

PROJECTS

University of Washington, Global Innovation Exchange

Sep. 2019 – Present

- *Microsoft x Port of Seattle – APU Monitoring System* – Collaborating with the Microsoft AI for Good team to develop prototype for monitoring Auxiliary Power Unit usage from 15 different types of APUs at SeaTac airport.
- *Sudsy Handwash Tracking iOS/watchOS App* – Created a Swift application using Apple Watch's accelerometer to time 20 seconds of handwashing and gain insight on handwashing habits using SQL for storage.
- *FaceSpace* – Developed GitHub Pages static site using TypeScript and Google's Handpose + Facemesh ML models and your webcam to detect and notify when you touch your face.

EDUCATION

University of Washington, Global Innovation Exchange
Candidate for Master of Science in Technology Innovation

Sep. 2019 – Present
Bellevue, WA

Seattle Central College
Bachelor of Applied Science in IT Networking

Sep. 2012 – Jun. 2018
Seattle, WA

ADDITIONAL INFORMATION

- **Certifications:** SUSE Certified Linux Administrator, LPIC-1: Linux Administrator
- **Awards:**
  - Participated in #BuildforCOVID19 Global Online Hackathon
  - University of Washington Maker Summit - Best Gizmo as a Community Member in 2018 & 2019