

JEFFREY MURRAY JR

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TECHNICAL SKILLS

Languages: Clojure, Python, Dart, C#, C++, Java, JavaScript

Tools: Amazon Web Services, GitHub, Docker, Kubernetes

Focus: Networking, Privacy, Security, Internet of Things

EDUCATION

Master of Science Cybersecurity Engineering
University of Washington | GPA 3.83

Expected 2024

Bachelor of Science Computer Science and Software Engineering
University of Washington | GPA 3.56

2020

PROFESSIONAL EXPERIENCE

Software Developer

Jan 2022 - Present

SAP Concur – Bellevue, WA

- Spearheaded a distributed load testing platform with Locust to evaluate the reliability of production services.
- Involved in creating a robust API for daily searches across millions of documents from thousands of callers.
- Pioneered GitHub workflows to automate and validate documentation against OpenAPI specifications.

Research Assistant

Jul 2020 – Sep 2020

University of Washington – Bothell, WA

- Privacy Analysis of Data Anonymization of Customer Proprietary Network Information.
- Investigation of a large body of literature in privacy preserving data anonymization techniques.
- Delivered two workshop presentations and a whitepaper for telecommunications partner.

Software Developer Internship

Oct 2019 – Feb 2020

Apollo Video Technology – Bothell, WA

- Developed a Flutter mobile application from scratch to decode live video streams.
- Utilized WebView plugin to render decoded live video stream in HTML via JS.
- Layered Architecture for user interface handled asynchronous network calls in Dart.
- Collaboration with three team members to design and QA test application.

TECHNICAL PROJECTS

Smart Mirror with Facial Recognition

Sep 2021 – Dec 2021

Internet of Things, Machine Learning

- Provides authenticated users a unique, configurable content view upon request.
- Extended Magic Mirror platform in Node.js as a user interface on Raspberry Pi 4.
- Integrated Google Assistant for voice control and configurable wake word with Porcupine.
- Use of CUDA powered facial recognition in Python on Jetson Nano.
- Created RESTful API on Google Cloud Services to facilitate event-driven communication.

Privacy-Preserving Framework

Sep 2020 – Aug 2021

Data Science, Machine Learning

- Anonymizes mobility traces contained in large datasets for data publication.
- Designed a standalone, plug-and-play framework to integrate new models and datasets.
- Integrated four datasets and two deep learning models to benchmark the system.
- Collaborated with one other team member to design API and configure docker container.
- Translates random noise into rich mobility traces from the population's attributes.