

Collin Dang

collindang88@gmail.com | [linkedin.com/in/collin-dang/](https://www.linkedin.com/in/collin-dang/) | collindang88.github.io

EDUCATION

University of Washington

September 2020 - June 2024

BS, Computer Science | GPA: 3.94

Seattle, WA

Relevant Coursework: Intro to Algorithms, Software Design and Implementation, Intro to Artificial Intelligence, Systems Programming, System and Software Tools, Hardware-Software Interface, Introduction to Data Management, Data Structures and Parallelism, Foundations of Computing I and II

LANGUAGES & SOFTWARE/TOOLS

- **Languages:** Python, Java, JavaScript, HTML/CSS, SQL, C, MATLAB, C#, Bash
- **Software/Tools:** React, Git, Docker, .NET Core, Django, Linux, Unity, ROS, Vue.js, Android Studio, Google Firebase, Raspberry Pi

WORK EXPERIENCE

UiPath

June 2022 - Present

Software Engineering Intern

Bellevue, WA

- Dynamically reconfigure application telemetry using feature flagging with LaunchDarkly API as part of Organization Management Services (OMS) team
- Augment telemetry pipeline to Azure Application Insights and write unit testing to verify these changes in C# and .NET Core
- Reduce company logs by over 90% while still maintaining the ability to dynamically reenable logs via feature flagging

Dotmote Labs

June 2021 - September 2021

Software Engineering Intern

Remote

- Managed SWEEP, a workflow management system for large companies
- Used Python, JavaScript, and Django to update and improve the SWEEP web app
- Created and accessed SQL databases within the Django framework
- Prepared SWEEP app for official launch to the public

RESEARCH EXPERIENCE

UW Robotics Laboratory

February 2022 - June 2022

Undergraduate Research Assistant

Seattle, WA

- Worked on AURMR (Amazon-UW Robotics Manipulation Research) project under guidance of Professor Joshua Smith and PhD student Boling Yang
- Integrated motion planner to move robotic arm and avoid collisions in ROS (Robot Operating System)
- Wrote Python scripts for calibration of robotic arm with respect to surrounding environment
- Improved robot gripper representations within Gazebo simulation environment through CAD software

UW Sensor Systems Laboratory

April 2021 - September 2021

Undergraduate Research Assistant

Seattle, WA

- Used a motor and Audacity to transmit and decode sound data with a Raspberry Pi
- Automated many of the encoding and decoding tasks with Manchester encoding in Python and MATLAB
- Lowered bit error rate to <1% for all transmissions with statistical analysis of audio frequencies
- Presented findings to Boeing, which resulted in a research grant for UW Sensor Systems Laboratory

PROGRAMMING PROJECTS

Chrome Website Blocker

December 2021 - April 2022

[\[Chrome Web Store Link\]](#) [\[GitHub\]](#)

- Created a Chrome extension that replaces a blocked site's content with ASCII emojis
- Used Bootstrap, JQuery, JavaScript, and HTML/CSS to design the extension and add functionality
- Syncs data across all Chrome devices with the chrome.storage API
- Published on Chrome Web store, has accrued 35+ global downloads since January 2022

Awards: National Merit Finalist, National AP Scholar, WA HS Chess State Team Championship 2020: 2nd place

Interests: Full-stack development, robotics, chess, running, productivity