

David Phan | (425) 228-8542 | hungthui27@outlook.com | <https://www.linkedin.com/in/dphan3/>

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Summary of Qualifications

- Proficiency in Programming languages/software: Java, Python, Bash/Command Line scripting, C, C++, Jupyter Notebook, Scala, VS Code, HTML, CSS, Javascript/Typescript, React, Bootstrap 4, Dagger DI, Mockito
- Version control/Workflow optimization software: Git, Github, Git Actions, Docker Compose
- Database and Cloud service software: AWS, Azure, MongoDB, PostgreSQL
- Leadership/Project Management, teamwork, and communication skills through coursework, leadership positions, and extracurriculars

Education

- **University of Washington, Seattle:** Expected Graduation Date: June 2024
 - **Bachelor of Science in Electrical and Computer Engineering (ECE):** GPA: 3.85
 - **Relevant Coursework:** Data Structures and Algorithms, Machine Learning for Signal Processing Applications, Computer-Communication Networks, Web Programming

Experiences and Activities

Date

Amazon – Software Development Engineer Intern

Jun. 2023 – Present

- Develop an internal full-stack application to aid Machine Learning research teams in processing datasets
- Design and create both a React/Typescript front-end and a REST API using AWS API Gateway, Lambda, s3, DynamoDB, and Amazon internal tools within 12 weeks
- Deploy applications through CI/CD frameworks using Git, internal pipeline tools, and AWS Pipelines
- Collaborate with a small team of developers to generate and meet design goals using the Agile Methodology/Framework

Software Development Intern – Makeability Lab, Project Sidewalk

Mar. 2022 – Present

- Maintain and update the Project Sidewalk API and website, which tracks and updates information on infrastructural issues in cities
- Collaborate with a team of other interns and a mentor to respond to GitHub tickets to quickly debug issues or implement new features in the code base or frontend UI/UX
- Utilize technologies like Scala, PostgreSQL, and other frontend languages/frameworks

Undergraduate Researcher – Theberge (BCME) Lab

Jul. 2022 – Present

- Automate data-analytics and image processing tasks by coding and deploying python-based applications
- Design and prototype microfluidic and biomedical devices for research and medical purposes using CAD software, 3D printing and Milling devices, and microcontroller circuits
- Build and optimize website features to represent lab research and expand study group participation

Software Engineering Intern – nFlux.ai

Sept. 2021 – Dec. 2021

- Analyzed and processed video files for ML training and worked with senior engineers on DevOps tasks to develop CI/CD pipelines using Docker Compose and Git Actions to enhance project workflow
- Designed and developed python code that automated and organized database information retrieval for SQL and noSQL databases
- Developed functionality testing procedures to analyze UI/UX components of company products

HackUPC Hackathon

May 2021

- Developed front end webpage for a facial recognition security system using HTML, CSS, and the Bootstrap 4 framework