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Website: https://davphan.github.io/Portfolio/

Summary of Qualifications

- Proficiency in Programming languages/software: Java, Python, Bash/Command Line scripting, C, C++, Jupyter Notebook, Scala, VS Code, HTML, CSS, Javascript, React, Bootstrap 4
- 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 – Sept. 2023

- Developed internal tools for the MediaX team to manage and deploy customer media data through the retail Amazon.com website and customer AWS services
- Designed a React based web application in 12 weeks using AWS to host and deploy media datasets
- Collaborated 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