David Phan

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Summary of Qualifications

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: Engineering Ambassador at UW, ECE Tutor at UW, Officer for Music for Charity at UW, School Music Director, Communications Lead at Washington Aerospace Scholars (WAS)

Education

University of Washington, Seattle	Sept. 2020 - June 2024
Bachelor of Science in Electrical and Computer Engineering (ECE)	GPA: 3.87, Cum Laude

Experiences and Activities

Software Development Engineer Intern - Amazon   Jun. 2023 - Sept. 2023
- Spearheaded internal full-stack application project to aid ML research teams in processing datasets
- Designed and implemented both a React/Typescript front-end and a REST API using AWS API Gateway, Lambda, s3, DynamoDB, and Amazon internal tools
- Deployed applications through CI/CD frameworks using Git, internal pipeline tools, and AWS Pipelines
- Collaborated with a team of developers to generate and meet design goals using the Agile Methodology/Framework

Software Development Intern - Makeability Lab, Project Sidewalk   Mar. 2022 – Jun. 2024
- Maintain and update the Project Sidewalk API and website, which tracks and updates geographical information on pedestrian accessibility issues in current city infrastructure
- Collaborate with a team of software developers to respond to GitHub tickets to quickly debug issues and 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 – Jun. 2024
- 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