Phillip H. Dinh

504-401-8262 | pdinh1@swarthmore.edu | LinkedIn | GitHub

EDUCATION

Swarthmore College   Swarthmore, PA
Bachelor of Arts in Computer Science and Mathematics; GPA: 3.95   *May 2026*
- **Skills**: Problem-Solving, Optimized Solutions, Security Best Practices, User Interface Design, Data Organization, Efficient Data Handling, Algorithm Design, Data Protection, Privacy Awareness, Problem Decomposition

EXPERIENCE

IBM Accelerate Software Track Fellow   June - Aug 2024
IBM   *Remote*
- Enhanced software development proficiency through intensive training in data structures, algorithms, full-stack development, and cloud-native technologies. Implemented unit testing to ensure code reliability and maintainability.
- Improved project outcomes through Agile methodologies, fostering collaboration and enhancing skills in project management and communication.

Comcast Innovation Fund Researcher   May - Aug 2024
Swarthmore College, MIT   *Swarthmore, PA*
- Leveraged **Python** (**Pandas**, **Matplotlib**, **NumPy**) to identify anomalies within Cloudflare's network measurement datasets, utilized Measuring Broadband America (MBA) data as a benchmark for comparison.
- Uncovered significant disparities in various measurements within Cloudflare's network data, which supported our hypothesis that hindering factors (i.e. web browsers) are causing unusually large outliers.
- Documented Python queries, generated graphs, and findings on GitHub for transparency and reproducibility.

Swarthmore College Computer Society Engineer   Jan 2023 - Present
Swarthmore College   *Swarthmore, PA*
- Co-engineered Cygnet.v2 (a 1,600+ student database) that improved search times by 83% by utilizing **Next.js** server-side rendering to filter data with **SQL** queries. Simplified code and improved UI through **React** components and **Tailwind CSS**.

Google Developer Student Club Lead   Sept 2022 - Present
Swarthmore College   *Swarthmore, PA*
- Directed a leadership team of 6 students for a 100+ member club, organizing workshops that taught developer technologies (such as **JavaScript**) through projects, with the goal of growing students' experience with modern programming technologies and preparing them for technical roles.
- Assistant developer to "Worthmore" (an online trading place for 1,600+ students on campus). Updated front-end to create a smoother UX and worked on back-end to ensure proper server work.

Columbia University's AI4ALL Scholar   June – July 2021
AI4ALL Program   *Remote*
- Developed traffic prediction AI algorithm using machine learning, **Python**, **NumPy**, and **Pandas**.
- Analyzed underlying bias within artificial intelligence through an interdisciplinary lens. This led to reflection on how to be more conscious about the biases within my AI.

PROJECTS

VlogNow | *JavaScript, React Native, Google Firebase*   May 2023 - Present
- Social media app that encourages users to post daily 5-second videos.
- Built back-end using Google's **Firebase** (authentication, Firestore, storage). Implemented cache to reduce bandwidth usage and improve data retrieval time.

At-Home Cafe | *Python, TKinter, Google Calendar API, ZenQuotes API*   Aug 2023 - Present
- **Python** app that adds a task to the user's Google Calendar and provides motivational quotes from ZenQuotes.
- Designed minimal interface using a **TKinter** library.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, C, Swift
Frameworks/Libraries: React, Next.js, React Native, Node.js, Pandas, NumPy
Certifications: IBM Accelerate - Software Developer, App Development w/ Swift Certified User