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*
- **Coursework**: CodePath-Advanced Interview Prep, CodePath-Cybersecurity, CodePath-Intermediate Web Development, Data Structures, Advanced Algorithms, Computer Systems, Security and Privacy, Competitive Coding, Linear Algebra, Discrete Math

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML/CSS, C++, C, Swift, Java, Assembly
Frameworks: React, Next.js, Tailwind CSS, React Native, TKinter, Node.js, jQuery
Libraries: Pandas, NumPy, Matplotlib, TensorFlow, React
Certifications: App Development w/ Swift Certified User, Louisiana IBC - Web Development 1 and 2

EXPERIENCE

IBM Accelerate Software Track Fellow   June 2024 - Present
IBM   *Remote*
- Enhancing software development proficiency through intensive training in data structures, algorithms, full-stack development, and cloud-native technologies. Implementing unit testing to ensure code reliability and maintainability.
- Practicing Agile methodologies and collaborative development while gaining foundational skills in corporate navigation and professional branding.

Comcast Innovation Fund Researcher   May 2024 - Present
Swarthmore College, MIT   *Swarthmore, PA*
- Leveraging **Python** (**Pandas**, **Matplotlib**, **NumPy**) to identify anomalies within Cloudflare's network measurement datasets, utilizing Measuring Broadband America (MBA) data as a benchmark for comparison.
- Uncovering significant disparities in various measurements within Cloudflare's network data, supporting our hypothesis that hindering factors (i.e. web browsers) are causing unusually large outliers.

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 with the goal of growing students' experience with modern programming technologies and preparing them for technical roles.
- Organized workshops that taught developer technologies (such as **JavaScript**) through projects.
- 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.