Gary Pham

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Education

Drexel University, Pennoni Honors College   Philadelphia, PA
Bachelor of Science in Computer Science   Anticipated Graduation
Minors in Computer Engineering and Mathematics   Expected Jun 2025
Computer System & Architecture with Algorithms & Data Structure Concentration   Cumulative GPA: 3.72

Skills

Programming Languages: C, C++, Python, Java, Racket, Bash, Kotlin, Go, Rust, Pascal, SQL
Tools: Visual Studio, IntelliJ IDEA, Git, UNIX, CCS, Arduino, UML, DrRacket, Docker, AWS, MOS
Frameworks: Django, Node.js, Angular, Spring
Operating Systems: Windows, Linux (Ubuntu, Mint, Kali, Raspberry Pi), MacOS

Relevant Coursework

System Architecture and Programming, Computer Organization   Alg and Data Structure Analysis, Machine Learning
Multi Calculus, Optimization Theory, Numerical Analysis   Statistics and Probability, Linear Algebra, Discrete Math
Advanced Programming and Design with Microcontroller   Modern Processor Design, Parallel Comp Architecture

Honors and Awards

Dean's List   Drexel University, 2021 - Present
A. J. Drexel Scholarship, Larson Family End Scholarship   Drexel University, 2021 - Present

Design Project

Good Meal - Better Healthcare Better Life| *Full-Stack Programmer*   Drexel University DragonHacks 2023
- Utilized JavaScript and Node.js for data retrieval from APIs, enhancing web application functionality, and integrating external data sources
- Demonstrated expertise in refining Chat-GPT models to achieve peak accuracy, resulting in enhanced outcomes
- Exploited HTML and CSS, specializing in creating visually appealing and interactive elements, including animated galleries and optimized image display

TDD Bank System | *Backend Programmer*   Drexel University Fall 2022
- Programmed in Java using IntelliJ IDEA and Git Lab. Illustrated the project by using UML
- Simulated a bank system by following Test Development Driven (TDD) Techniques with over 300 tests, adopting mutation test and code quality
- Performed a standard real-time bank system (create accounts, deposit, withdraw, transfer, pass time, and more)

Work Experience

Drexel College of Computing and Informatics, Philadelphia, PA, US | *CCI Course Assistant*   Spring 2023 - Present
- Being a tutor to support students in assigned courses by holding office hours, and lab sections
- Assisting professors by involving in the grading system to handle a large number of students in courses
- Enhancing the courses' quality by engaging in reviewing and developing materials every term

Medcrypt, Solana Beach, CA, US | *Embbded Software Engineer*   Spring 2024 - Summer 2024
- Developing ASN.1 encoder/decoder in C to minimize storage on STM32 compared to mbedTLS or wolfSSL
- Solving symbol problems while linking customer and company libraries, ensuring seamless integration
- Familiar with Clang and GCC, including linking static and dynamic libraries

FPT Software, Hoa Lac, Hanoi, Vietnam | *Internship A.I Researcher in OCR Quy Nhon Team*   Summer 2022
- Conceptualized the methods and algorithms optimization for the Optical Character Recognition (OCR) model
- Programmed in Python using NumPy, Mathplotlib, and Pandas as an OCR model, Java with Angular Web framework for full-stack development
- Designed OCR model for scanning hieroglyphs (Japanese Kanji) using Object Detection and CNN model variants

Activities

Participant, Philly Code Fest 2023 and DragonHacks 2023   Varsity Player, Drexel Badminton Club, 2021 to Present
Participant, ICPC USA Regional Contest, 2021 to Present   Varsity Player, Hanoi Swimming Team, 2020 - 2021