

Kyle Pham

kylepham.n@gmail.com | (346) 232-1580 | Fort Collins, CO 80526 | <https://kylephamn.github.io/portfolio/>

Skills

Programming Languages: Python3.13, Java23, JavaScript, HTML5, CSS3, C++23, MATLAB, R, VB.NET, & Bash

Development Tools: GitHub, JUnitTesting, Amazon Web Services (AWS), Agile PM, React JS, IntelliJ IDEA, Visual Studio Code IDE, MobaXTerm, NetBeans, PowerShell, Linux, LAN, Node.JS, PyCharm, Jupyter Notebook, Excel, Microsoft Visio, Jamovi, TCP/IP, VMWare, optimization, computer clusters, WinSCP, Windows Remote Desktop, GUI (Tkinter), APIs, Object-Oriented Programming, Scrum, Kanban Paradigms, multiprocessing, and Networking

Languages: Fluent in Vietnamese, and business proficient in Korean and Spanish

Interpersonal: Complex problem-solving, strong verbal and presentation skills, and ability to manage fast-paced environments

Education

Bachelor of Science in Computer Science, Software Engineering Concentration

May 2026

Colorado State University - Fort Collins, CO

GPA - 3.2

Courses

Software Development, System Securities, Discrete Structures, Data Structures, Linear Algebra, Intro to C++, Java, & Python

Awards

Reisher Scholarship Recipient, Bachelor of Science Computer Science Dean's List, Korean Certification of Commendation

Projects

PokéFinder | Independent Python Project | Python

- Developed a GUI-based application using **Python Tkinter** library to manage and retrieve 1000+ Pokémon data entries efficiently
- Integrated external **APIs** to fetch and display Pokémon sprites alongside comprehensive stats within the application interface
- Applied **object-oriented programming** principles to create scalable and maintainable code, facilitating future enhancements

Anchored Maximum Likelihood Estimation Algorithm (AMLE) | Translational Neurological Laboratory | VB.NET

- Developed a **Visual Basic** program to estimate person abilities (theta) using Anchored Maximum Likelihood Estimation (AMLE) with polytomous and dichotomous items, including corrections for extreme scores
- Implemented Rasch-Andrich thresholds for rating scales, allowing for precise modeling of item categories and step transitions
- Assessed model fit through outfit/infit mean squares and flagged unexpected responses with standardized residuals

Block and Stream Cipher Program | CS356 - System Securities | C++

- Implemented encryption and decryption algorithms using block and stream ciphers utilizing C++, ensuring secure file handling for plaintext and ciphertext operations
- Developed input validation and error handling for multiple command-line arguments, including file path verification and cipher mode selection (block/stream)

Society of Asian Scientists and Engineers Colorado State Chapter Website | Independent Website Project | HTML5, CSS3, JavaScript

- Designed and developed a user-friendly front-end application for efficient task organization and management
 - Utilized **JavaScript**, **HTML**, and **CSS** to create an intuitive user interface
 - Accelerated development timeline by using **Node.JS** and Visual Studio Live Server to visualize improvements in real-time
 - Streamlined data retrieval to display board officers and chapter picture gallery
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Professional Work Experience

Information Technology Infrastructure Intern

Fort Collins, CO

Colorado State University Department of Information Technology

September 2024 - Present

- Manage and optimize server infrastructure to ensure high availability and scalability for organizational applications
- Design and implement network solutions that support seamless enterprise operations and the possibility of future expansion
- Monitor storage systems to improve data access, performance, and reduce latency

Information Technology Support Technician

Fort Collins, CO

Engineering Technology Services

July 2024 - Present

- Assisting 15+ users daily utilizing FreshService ticket service to accurately and expeditiously, ranging from software deployments to hardware installations, to account credential retrieval
- Ability to troubleshoot unique issues within Windows, Linux, and MacOS devices, utilizing thorough documentation and resources to identify and resolve complications
- Efficiently and accurately resolved erroneous computers and devices with a variety of issues from software to hardware
- Streamlining communication methods to technicians and management to ensure the highest quality of service and expertise

Research Intern

Fort Collins, CO

Translational Neurological Laboratory

June 2024 - August 2024

- Designed and deployed a **Java** application to clean and interpret de-identified data files for a research study
 - Engineered user-friendly **Excel** workbook for clinicians to record and visualize patient data
 - Implemented refactored **JavaScript GitHub** project to refactor for an AMLE algorithm to estimate Rasch Measures using **VB.net**
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Volunteer & Involvement Opportunities

Involvement: Society of Asian Scientists & Engineers, Asian Pacific American Cultural Center, DevNet, & Association Computing Machinery

Volunteer: BRAINSTORM Laboratory, Cans Around the Oval, Rams for Change, and Vietnamese Student Association