Kyle Phạm

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Skills

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

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**

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