Kyle Phạm

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Skills

Programming Languages: Python, **Java23**, **JavaScript**, **HTML5**, **CSS3**, **C++, 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, LAN, PyCharm, Jupyter Notebook, Excel, Microsoft Visio, Jamovi, TCP/IP, VMWare ServerSockets, computer clusters, WinSCP, Windows Remote Desktop, and Networks

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

Interpersonal: Strong verbal and presentation skills, ability to manage fast-paced work environments and complex problem-solving

Education

Colorado State University   Fort Collins, CO
Bachelor of Science in Computer Science - GPA: 3.2   **May 2026**
Software Engineering Concentration

Awards

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

Relevant Coursework

Introduction to Java, C++, and Python, Computer Systems Foundations, Data Structures, Applied Statistics, Linear Algebra, System Securities, Software Development, Web Development, Discrete Structures and Algorithms, and Calculus for Computational Science

Certificates

BioMedical Researchers, BioMedical Research, Social/Humanistic/Behavioral Research, and Remote Informed Consent
USDHS FedVTE

Projects

Anchored Maximum Likelihood Estimation Algorithm | Translational Neurological Laboratory
- Developed a **Visual Basic** script 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
- Implemented encryption and decryption algorithms using block and stream ciphers in **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)
- Created and optimized a Makefile to automate the build process, ensuring seamless compilation and executable generation

Society of Asian Scientists and Engineers Colorado State Chapter Website | Personal
- 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

Knight Fight Game | CS164 - Introduction to Java
- Utilized **Agile Project Management** to create UML diagrams and Java Documentation to structure game architecture
- Applied object-oriented principles, including polymorphism, to create scalable and maintainable **Java** code, enhancing future game expansion
- Conducted thorough unit testing across key components to ensure gameplay mechanics and minimize runtime errors

Finance Management Application | Personal
- Developed a **Java**-based application for account management, featuring account creation/deletion, deposit/withdrawal transactions, balance inquiries
- Utilized an **API** to fetch and process real-time currency conversion data
- Optimized CSV file parsing for data extraction and interpretation using Big O notation
- Implemented multithreading to enhance application responsiveness and performance by 95%

Task Management Application | Personal
- 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
- Integrated browser local storage to ensure seamless data retention and accessibility
- Implemented comprehensive solutions for both the back-end and front-end, resulting in a polished final product for enhanced task management capabilities

Secure Password Generator | Personal
- Developed a sophisticated password generation algorithm in **Python**, utilizing os.urandom for cryptographic-grade strength
- Enabled seamless customization of password parameters through an intuitive console interface
- Implemented robust input validation and error handling mechanisms to enhance application reliability
- Integrated comprehensive solutions to ensure a secure and reliable password-generation process

Professional 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 Assistant   Fort Collins, CO
Engineering Technology Services   **July 2024 - Present**
- Assisting 10+ users daily utilizing FreshService ticket service to accurately and expeditiously, ranging from software deployments to hardware installations, to account credential retrieval
- Troubleshoot unique issues within Windows and Linux devices, utilizing thorough documentation and resources to identify and resolve the complication
- 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

Peer Mentor   Fort Collins, CO
Asian Pacific American Cultural Center   **August 2023 - Present**
- Educated 70+ mentees to learn health care and academic resources
- Improved leadership, critical thinking, and furthered communication
- Constantly working with mentors and coordinators to plan events for 70+ mentees

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 **GitHub** project to refactor for an AMLE algorithm to estimate Rasch Measures using **VB.net**

Korean Teaching Assistant   Fort Collins, CO
LKOR100-101 at Colorado State University   **August 2023 - December 2023**
- Provided constructive feedback to 50+ students, fostering a cooperative learning environment
- Managed grading system for 100+ records, ensuring smooth program operation
- Encouraged students to attempt pronunciation to reinforce a positive learning environment

Front of House Team Member   Fort Collins, CO
Chick-Fil-A   **February 2022 - July 2024**
- Addressed 400+ inquiries and requests promptly, fostering a positive team culture through conflict resolution
- Maintained over 95% performance accuracy in a fast-paced environment
- Supported team members during peak hours by stepping in to assist with tasks and ensure timely completion

Volunteer & Involvement Opportunities

Involvement: Asian Pacific American Cultural Center, DevNet, and Society of Asian Scientists and Engineers
Volunteer: BRAINSTORM Laboratory, Cans Around the Oval, Fall Clean-Up, and Vietnamese Student Association