

Kenneth Chhour

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EDUCATION

James Madison University

Bachelor of Science in Computer Science

Harrisonburg, VA

Aug. 2021 – May 2025

Relevant Coursework

Data Structures and Algorithms, Software Engineering, Computer Systems I & II, Database Systems

PROJECTS

Command-Line Shell | C

January 2024 – March 2024

- Developed a fully functional command-line shell interface using C programming language.
- Implemented features such as file redirection, piping, and execution of batch files to enhance user experience.
- Utilized advanced data structures to optimize the performance and efficiency of the shell.
- Conducted rigorous testing to ensure robustness and reliability under various user inputs and scenarios.

Y86 CPU | C

September 2023 – December 2023

- Engineered a simulation of Y86 CPU architecture, demonstrating deep understanding of CPU design and operations.
- Implemented intricate algorithms for instruction fetch, decode, execute, memory access, and write back stages.
- Enhanced simulation performance through optimization techniques resulting in faster execution times.
- Documented all processes meticulously ensuring future scalability and maintenance.

File Compression App | Java

April 2023 – May 2023

- Developed a file compression application in Java, emulating the functionality of popular tools like WinZip and 7zip.
- Designed and implemented algorithms for efficient file compression and decompression.
- Utilized Java's I/O libraries to handle file operations, ensuring compatibility with various file formats.
- Conducted performance testing to optimize compression ratios and speed, resulting in improved user experience.
- Documented code extensively for future updates and maintenance, adhering to best practices of software development.

EXPERIENCE

Service Desk Assistant

JMU Libraries Learning Innovation and Design, James Madison University

January 2023 – Present

Harrisonburg, VA

- Provided technical support to library patrons, resolving 90% of issues on first contact.
- Assisted with the maintenance and troubleshooting of library computer systems.
- Trained new staff members on library systems and procedures.

COMMUNITY & INVOLVEMENT

Vice President | Lambda Phi Epsilon Fraternity Incorporated

- Led a team of fraternity members, organizing regular meetings and overseeing fraternity operations.
- Planned and executed community service initiatives, contributing over 100 hours of service to the local community.
- Coordinated fundraising events, raising over \$5000 for fraternity programs and charities.

TECHNICAL SKILLS

Languages: Java, C, SQL (Postgres), Python, Ruby, JavaScript, HTML/CSS

Developer Tools: Git, VS Code, Visual Studio, IntelliJ, Eclipse, Scrum and AGILE