KAYLI GERKA

Fishers, IN   (317)-793-4140   kaygerka@gmail.com   www.github.com/kaygerka

EDUCATION

Purdue University – West Lafayette, IN   **Expected Graduation Date: May 2027**

Bachelors of Science in Computer Science

Organizational Leadership Minor

Certificate of Applications in Data Science: In Progress

    <u>Current Enrolled Courses</u> : Systems Programming

    <u>Completed Courses</u>: Data Structures, Computer Architecture, Web Application Development, Discrete Math

Sigma Kappa Sorority – Beta Sigma Chapter

TECHNICAL SKILLS

Languages: Proficient in Python, Java, JavaScript, C, CSS, HTML – Comfortable with React, Assembly

Technologies: Linux, Unix, Git, Visual Studio Code, IntelliJ, MS Office, Breadboards

PROJECTS

E-Commerce Clothing Marketplace Project
- Developed a comprehensive e-commerce platform for a clothing marketplace using Java
- <u>Implemented core functionalities including</u>: User management, Product catalog, Store management, Shopping cart and checkout process, Marketplace management
- Utilized object-oriented programming principles to ensure modularity and code reusability
- Collaborated with team members to debug issues and optimize code performance

Custom Memory Allocator
- Developed a custom implementation of malloc and free functions in C, focusing on efficient memory allocation and deallocation strategies
- <u>Allocation:</u> Utilized multi-list free list structured and developed block splitting mechanism for efficient memory utilization
- <u>Deallocation:</u> Developed an algorithm for freeing blocks and managing proper block tracking
- <u>Dynamic Chunk Allocation:</u> Implemented functionality to request additional memory chunks from the OS and on coalescing

Tic – Tac – Toe
- Developed a versatile Tic-Tac-Toe game implemented in multiple programming languages and frameworks
- <u>Languages:</u> React, JavaScript, JS Frameworks

EXPERIENCE

Bell Nursery Retail Merchandiser – Noblesville, IN   **May 2024 – August 2024**
- Unload Shipments
- Stocks and accounts inventory
- Customer Service

Woodland Country Club Pool Check-in – Carmel, IN   **May 2024 – August 2024**
- Interact and Check in members
- Stock and Wash towels

Dry Goods Sales Associate – Noblesville, IN   **June 2023 – August 2023**
- Welcomes and assists the customers
- Checks out with the cash register and answers phone calls

Fishers-HSE High School Hackathon – Fishers, IN   **February 2023**

https://github.com/brahmapa005/Mudsock-Hackathon
- Designed and developed a program to organized inputted plants with a watering schedule.
- Created with JavaScript
- Designed with HTML and CSS on Visual Studios

ACTIVITIES

InnovateHer Hackathon   January 2025

Computer Science Women's Networking   September 2023 – Present

Girls Who Code Member – Purdue University   September 2024 – Present

Lacrosse Captain – Fishers High School & Circle City Lacrosse Club   October 2021 - May 2023