

KAYLI GERKA

Fishers, IN kaygerka@gmail.com <https://kaygerka.github.io/> 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

Current Enrolled Courses : Operating Systems, Intro to Cybersecurity, Intro to Artificial Intelligence, Information Systems,

Completed Courses: Data Structures, Computer Architecture, Systems Programming, Web Application Development, Discrete Math

Sigma Kappa Sorority – Beta Sigma Chapter

TECHNICAL SKILLS

Languages: Proficient in Python, Java, JavaScript, C, C++, React, Assembly, Shell Scripting, CSS, HTML,

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

PROJECTS

E-Commerce Clothing Marketplace Project

- Developed a comprehensive e-commerce platform for a clothing marketplace using Java
- Implemented core functionalities including: 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
- Allocation: Utilized multi-list free list structured and developed block splitting mechanism for efficient memory utilization
- Deallocation: Developed an algorithm for freeing blocks and managing proper block tracking
- Dynamic Chunk Allocation: 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
- Languages: React, JavaScript, JS Frameworks

EXPERIENCE

Bell Nursery Retail Merchandiser – Noblesville, IN

May 2024 – Present

- Unload Shipments
- Stocks and accounts inventory
- Customer Service

Woodland Country Club Pool Check-in – Carmel, IN

May 2024 – Present

- 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