

Kenneth Barrett

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OBJECTIVE

Skilled computer programmer with knowledge of information technology and security. Strengths include public speaking, leadership, and an ambition to learn more. Looking for an internship or full-time job in the computer science or information technology field.

EDUCATION

University of Pittsburgh

Pittsburgh, PA

- Bachelor of Science in Computer Science and Minor in Mathematics; GPA: 3.62/4.0

Expected Graduation May 2025

RELEVANT COURSEWORK

Algorithms and Data Structures 2

CS 1501, 1/2024- 4/2024

- Covered searching, compression, and graph algorithms. Implemented and tested these algorithms on large-scale projects.

Applied Cryptography and Network Security

CS 1653, 5/2024- 7/2024

- Covered common cryptographic algorithms and protocols. Also Learned user authentication methods and internet security protocols. Created a secure server-based file-sharing application in a group of three.

SKILLS SUMMARY

Languages: Java/Javascript/CSS/HTML/Python(Advanced), C/SQL(Intermediate)

Tools/Frameworks: Git, Visual Studio, Figma, React, Tailwind CSS

EXPERIENCE

Researcher, Project Rebound

Pittsburgh, PA, 5/2024 - Present

- Volunteered to help develop a website assisting formerly incarcerated individuals incorporate themselves into day-to-day life.
- Used React to create a scalable website with reusable components.
- Focus Heavily on UI design to allow easy access for people who lack digital literacy.
- Used Figma to employ website designs that are easy to understand and visually appealing.

Shure-Grid Fellowship, Idaho National Lab and University of Pittsburgh

Pittsburgh, PA, 5/2024 - 8/2024

- Analyzed cyber attacks on critical infrastructure to find points of failure, then found countermeasures to address failures. Used Cyber Informed Engineering Principles in analysis, an emerging method that pushes for cybersecurity to be incorporated into the engineering process of systems.
- Worked with faculty at the University of Pittsburgh and interviewed industry professionals to help find solutions.
- Assisted in the creation of video media to help provide a visual representation of cyber threats. Created documentation of these cyber threats to help students understand methods in which we can incorporate cybersecurity in engineering.

PROJECTS

NoteNest

SteelHacks, Pittsburgh, PA, 3/24

- Javascript website that transposes guitar audio to tabular notation in a four-person group. Used fast-fourier transforms to map audio to a frequency. We then used this frequency to map notes on the guitar. The user is allowed to choose tabular notation specific to their guitar, such as for the tuning of the guitar.

Fish Calculator

Farmington Hills, MI, 1/24

- Created a website where a user can create a virtual aquarium and stock it with fish to determine compatibility. Improved CSS and JavaScript skills and utilized SQL to store fish and respective attributes. SQL allows for easy addition of new fish.

Restaurmania

CSCHacks, Pittsburgh, PA, 11/24

- Restaurant simulation game built in a three-person group. Can move multiple characters simultaneously to create requested dishes at a given time.

CERTIFICATIONS

- CompTIA Network+ certified
- CompTIA A+ certified
- GIAC Foundational Cybersecurity Technologies GFACT Certified