Peter Njoroge

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EDUCATION

University of Maryland College Park — **College Park, Maryland**
Bachelor of Science in Computer Engineering — Expected May 2027
Honors/Awards: University-Honors Honors College, Shewell Keim Scholarship in Computer Engineering
Relevant Coursework: Introduction to Object Orientated Programming, Calculus I

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML, CSS, Arduino
Programs/OS: PyCharm, Eclipse, Arduino IDE, VScode, Git, AutoCAD, Microsoft Office, MacOS, Window's OS

TECHNICAL EXPERIENCE

Amazon x CodePath — **Arlington, VA**
Software Engineering Apprentice — Summer 2024

- **Engaged in collaborative coding projects, applying data structures and algorithms to real-world scenarios and practical problems, enhancing ability to work effectively in a group setting**
- **Prepared for professional career through immersive workshops, tech-related speaker engagements/projects, and direct mentorship from Amazon employees**
- **Gained technical skills through participation in an Intermediate Technical Interview Prep course**
- **Attended technical events at Amazon HQ2**

PROJECTS

Project: Peter's Personal Portfolio| JavaScript, HTML, CSS| GitHub — March 2024

- **Developed a personal portfolio website showcasing skills, experience, in frontend engineering, utilizing HTML, CSS, and JavaScript.**
- **Implemented tabbed content for easy navigation and organization of information, enhancing user experience and accessibility.**

Project: Hospital Management System| Java, Java Swing | GitHub — February 2024

- **Designed and implemented a Hospital Management System using Java Swing for the graphical user interface and Java for the backend, showcasing skills in backend engineering.**
- **Developed a user-friendly interface for hospital staff to manage patient and doctor information, schedule appointments, and track medications.**
- **Utilized Object-Oriented Programming principles to create modular and scalable code.**
- **Implemented data sorting algorithms for presenting patient and doctor information in a structured manner.**

Project: OTV Development | C++, Arduino, AutoCAD — September 2023-December 2023

- **Planned, constructed, and developed a specialized Automated Guided Vehicle (AGV) for water sampling tasks.**
- **Orchestrated AGV navigation to autonomously collect a 20ML water sample, utilizing Ultrasonic Sensor for depth measurement, DIY salinity sensor for water assessment, and integrated Arduino Color Sensor for pollution detection.**
- **Key development role to Arduino (C++) coding and debugging, ensuring seamless communication between software components and the AGV's hardware.**
- **Key role in understanding and troubleshooting the circuit schematic, ensuring optimal functionality of electronic components in the AGV.**

Project: Media Rental Manager | Java | GitHub — November 2023

- **Developed a MediaRentalManager class for a digital Redbox-like system, incorporating essential classes and interfaces. Efficiently managed customer and media databases using Array Lists, and object-oriented programming**
- **Designed and implemented a comprehensive customer management system Captured customer details such as name, address, and plan type, enhancing user experience**
- **Utilized queues to manage customer media interests and rented items, facilitating smooth plan transitions, and implemented a flexible media rental system based on rental plans.**

LEADERSHIP

Freshman Executive Board Treasurer — **College Park, Maryland**
UMD Black Student Union — September 2023–Present

- Managed the financial affairs of UMD's Black Student Union, overseeing budgeting, fund allocation, and fundraising
- Collaborated with other executive board members to plan and execute events, aligning financial resources with the organization's goals
- Implemented strategic financial planning to support the organization's initiatives, ensuring responsibility and sustainability