

James Harrell

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EDUCATION

Purdue University, Class of 2025 August 2021 – Present

BS in Computer Science, Machine Intelligence Concentration

Minor in Management, Minor in Mathematics

GPA: 3.4

Tampa Preparatory High School August 2017 – May 2021

GPA: 4.22

SAT: 1460/1600 | Math: 760/800

SKILLS

Programming Skills: Kotlin, Java, C, Git, Docker, MySQL, Linux, LaTeX, Server Administration, Jenkins

Soft Skills: Initiative, Perseverance, Leadership, Communication, Organization, Teamwork

Relevant Coursework: Data Structures & Algorithms, Computer Architecture, C Programming, Problem Solving & Object-Oriented Programming, Data Mining & Machine Learning

EXPERIENCE

Incoming Software Development Intern, Raymond James Summer 2024

Software Development Intern, Raymond James Summer 2023

- Key Contributor to the AMS Billing Website, using Java and Spring Boot
- Delivered many impactful features through the development lifecycle to production

Freelance Software Developer Summer 2022

- Developed a Discord Bot for my Fraternity utilizing the Discord REST API through Kotlin
- Developed information flow enhancements, a polling system, and announcement system

Software Developer, Vertmix Inc. Summer 2021

- Used Kotlin, Git, Docker and other tools to setup Minecraft Servers and Plugins
- Agile Development and deadline focused projects

Freelance Software Developer Mar 2021

- Developed a Discord Bot for a server of 120k members using Java and the Discord API
- Communicated with the client frequently by giving status updates

Cashier, Publix Supermarkets Jun 2019 – Nov 2020

- Worked with other employees to ensure an excellent shopping experience

Freelance Software Developer Sep 2019 – July 2020

- Managed a Linux server, a MySQL database, and wrote Minecraft plugins in Java

PROJECTS

Implementing Malloc Spring 2023

- Managed the efficient and optimized allocation and deallocation of memory from the heap
- Used bitwise operations to minimize size of memory footprint

Shell Project Spring 2023

- Designed and implemented a robust Linux Shell Interpreter that handled process creation, pipes, background processes, wild cards, and more

Airline Network Project Fall 2022

- Designed regional airport network via Kruskal's algorithm, optimizing routes within budget
- Unified regional networks into a global system using Dijkstra's algorithm

My CS Plan – Hackathon Project Nov 2021

- Collaborated with a 5-member team, developing a Next.js frontend to showcase optimal completion paths for multiple Computer Science concentrations
- Integrated and presented analyzed data from the Python backend using a REST API

ADDITIONAL INFORMATION

- **Achievements:** Eagle Scout, Summited Mount Elbert
- **Interests:** Hiking, Biking, Camping, Backpacking, Fishing, Golf
- **Community Service:** Southeastern Guide Dog Puppy Raiser, Feeding Tampa Bay Volunteer
- **Team Sports:** Travel Baseball, High School Soccer
- **Clubs / Societies:** Beta Sigma Psi Fraternity (Treasurer, Recruitment Chairman, Vice President)