Aidan Keighron

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EDUCATION

Michigan State University Honors College - GPA: 3.95 East Lansing, MI

Bachelor of Science in Computer Science, Minor in Business *Aug. 2023 – April 2027*

Courses: Data Structures & Algorithms, Discrete Math, Computer Organization and Assembly, Software Design

EXPERIENCE

STEM Co-op May 2025 – Present

Toyota *Saline, MI*

Lead Developer Aug. 2022 – May 2025

APS Data Technologies *Aurora, IL*

- Spearheaded development of a React Native smart city mobile app, writing 45% of code and handling development of the most challenging systems; improved car tracking system accuracy by 48% and achieved real-time performance, decreasing processing time from 2 sec to 0.2, reducing overall cost
- Customized pages for the Paramount Theater, seamlessly integrating it with their databases and payment systems
- Built a team from the ground up of 7+ interns, overseeing work, providing training, and assigning tasks to maximize output, resulting in a better experience for the interns and more developmental progress

Founder & Developer Jan. 2024 – Present

Half Full *Wheaton, IL*

- Founded a startup to help others increase productivity and improve time management; gained experience in business management and leadership
- Developed exclusive features using Exectron.js to streamline task scheduling and weekly planning, reducing time investment by 35%, and allowing users to personalize their task creation process
- Conducted thorough competitor analysis to ensure product marketability and distinction from existing products
- Gathered market research, prioritizing development to suit customer needs, resulting in a larger target market with more potential for success

PROJECTS

Various Programming Projects | github.com/aidankeighron Oct. 2020 – Present

- Learned new languages and frameworks through 10+ projects to expand my capabilities as a programmer
- Built an AI Java maze solver from scratch to gain a deeper understanding of core Machine Learning principles
- Developed a robotics fantasy league website and integrated with FIRST match results to provide live updates
- Created a physics simulation in C# to apply academic knowledge and enhance coding skills

SKILLS

Languages: Python, JavaScript/TypeScript, Java, C#, C++, HTML/CSS, SQL (MySQL)
Frameworks: React, React Native, Next.js, Express.js, Electron.js, Tailwind, Swing
Technical Skills: Git, Google Cloud Platform, VS Code, Visual Studio, Machine Learning, Computer Vision, REST
Soft Skills: Problem-Solving, Project Management, Team Leadership, Agile Development, Creative Writing

ORGANIZATIONS

Bad Conflict Combat Robotics | Team Manager Aug. 2022 – Present

- Guided team members in robot design and development for antweight combat robotics competitions
- Secured $8,000+ in team funding to be used for materials, ensuring all members can participate at no cost

Michigan State University Imagine Software Club | Vice President Aug. 2023 – Present

- Led a team of 5 developers in building an MVP website for a tutoring nonprofit organization, helping improve existing communication and scheduling pipelines

Youth and STEM Education Foundation | Board Member Jan. 2024 – Present

- Actively promoting STEM education in local communities: organizing STEM fairs, fundraising for K-12 robotics teams, and leading a successful summer camp that inspired 25+ children to pursue STEM fields

PWNAGE FRC Robotics Team | Programming Lead Aug. 2019 – Aug. 2023

- Programmed a wide variety of robot systems, from swerve drivetrains to robotic arms prioritizing speed over accuracy, resulting in robots being ranked in the top 50 in the world and renowned for their speed and accuracy