

# Michael Perkins

perkinsr.mike@gmail.com

(321) 432-3790

mikeperkins.xyz

## Education

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**University of South Florida** – B.S. in Computer Engineering, Minor in Physics

**May 2026**

## Work Experience

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**Tutor**, University of South Florida – Tampa, FL

Jan 2024 – Current

- Collaborate closely with fellow tutors to address student inquiries and provide comprehensive assistance across various subjects, including Finite Math, Pre-Calculus, and College Algebra.

**Sales Associate**, Lowes – Titusville, FL

May 2023 – July 2023

- Collaborated with a diverse team to ensure customer satisfaction and successful project outcomes.
- Leveraged product knowledge and expertise to provide advice and creative solutions for customers' outdoor projects.

## Engineering Projects

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**StartUpGeniusAI** - *Express.js, Node.js, React, CSS, MongoDB*

- Implemented a SaaS platform featuring Clerk for seamless user account management and authentication, MongoDB for robust data storage, OpenAI API for advanced AI functionalities, Stripe for secure payment processing, and SerpApi for retrieving comprehensive product information from Google.
- Users input their business or hobby ideas, leveraging AI to generate personalized business plans. These plans include suggested products and incorporate AI-generated insights into marketing trends.
- Focused on a user-friendly interface and monetization. Currently enhancing the platform with a custom-built forum for community engagement and working to connect investors with users.

**Password Management System** - *C++*

- Led the creation of a C++ Password Manager, allowing users to generate and store secure passwords with customizable options. Employed Caesar cipher encryption for robust data security. Implemented a user-friendly authentication system for seamless password management.
- Mentored students throughout the project, teaching programming language usage and fostering a programming mindset.

## Technical Skills

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**Languages:** Python, C, C++, MATLAB, TypeScript, HTML/CSS, Java, Lua, JavaScript

**Frameworks:** React.js, Next.js, Three.js, TailwindCSS

**Tools:** Visual Studio Code, Visual Studio, GNU Nano, Arduino IDE

**Hardware:** Proficient in Arduino development, novice with Atmega328p, hands-on experience with various hardware components

## Awards & Certifications

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- IC3 Digital Literacy Certification
- International Baccalaureate Diploma