Farhan Mahbub

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EDUCATION

University of Central Florida   GPA: 3.94/4.00
Bachelor of Science in Computer Science + Minor in Mathematics   *Aug. 2021 - May 2025*
Relevant Courses
Data Structures and Algorithms, Object-Oriented Programming, Artificial Intelligence, Discrete Math, Calculus I-III

EXPERIENCE

Lockheed Martin   Jun. 2023 – Present
Software Engineering Intern
- Analyzed and documented DevOps CI pipelines and the software development life cycle.
- Effectively implemented and tested embedded software using C++ and simulation models.
- Collaborating with engineering teams to gather and refine project requirements to accelerate project development.

Knight Hacks   Oct. 2022 – Present
Full-stack Developer
- Implemented, integrated, and rigorously tested query resolver functions with other back-end team members using SQL and GraphQL for a hackathon registration website.
- Designing an engaging and user-friendly UI for the Knight Hacks club's main website.
- Actively contributing to club operations and assisting students with math and programming challenges.

FIRST Robotics   Aug. 2020 – May 2021
Programming Lead
- Introduced GitHub and Object-Oriented programming concepts to young students eager to explore Robotics.
- Managed the programming of the robot's mobility and wired its electronics to improve its scoring capabilities.

PROJECTS

Review Generator 9000 | *TypeScript, React, Express, Next, OpenAI, Puppeteer*   Oct. 2023 – Oct. 2023
- Won Microsoft's "Best Use of Microsoft Semantic Kernel for Improving Shopping Experiences" challenge.
- Created a web scraper that grabs several store product reviews using Puppeteer.
- Incorporated OpenAI's ChatGPT API to generate the pros and cons and an overall summary of the consensus.

Handy Dollar | *TypeScript, React, TailwindCSS, Next, Supabase, Azure, Plaid, OpenAI*   Sep. 2023 - Sep. 2023
- Secured 2nd place in Google's "Empowering Learners with Technology" challenge at ShellHacks.
- Designed a main page UI that showcases spending analytics and bank transactions using the Plaid API.
- Utilized Azure's AI Vision and OpenAI's ChatGPT API to extract and correlate receipt data with transactions.

Overtone | *TypeScript, React, TailwindCSS, AWS, Next, Go, DynamoDB, OpenAI*   Aug. 2023 – Present
- Developed a chatbox UI with React and TailwindCSS, seamlessly integrating OpenAI's ChatGPT API to generate responses for user interactions.
- Implemented secure AWS Lambda functions with AWS API gateway for managing user CRUD operations.
- Used AWS Cognito to handle user authentication and DynamoDB for efficient data management.

Grocery Goodies | *TypeScript, React, TailwindCSS, Express, Vite*   Apr. 2023 – Jun. 2023
- Created a user-friendly store app enabling users to add food items to their cart and complete purchases.
- Designed and implemented a RESTful API for cart management using Express.
- Crafted a clean and interactive UI with React and TailwindCSS.

Find My Professor | *TypeScript, React, TailwindCSS, Go, GraphQL, SQL, PostgreSQL*   Sep. 2022 – Nov. 2022
- Collaborated with a team to develop a platform that provides a list of professors, reviews, and rating analyses for a given school name and course code.
- Implemented back-end query resolver functions for professors and courses using Go and GraphQL.
- Utilized SQL for efficient CRUD operations on the PostgreSQL database.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, Go, PHP, HTML, CSS, JavaScript, TypeScript, SQL, GraphQL
Frameworks/Libraries: TailwindCSS, React, Express, GoFiber, Vite, Next
Software/Service: Git, Ubuntu, Vercel, OpenAI, AWS, Azure, Supabase, Apache, Docker, MySQL, PostgreSQL