

# Kristian Michel

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## EDUCATION

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### University of Central Florida

Bachelor of Science in Computer Science

GPA: 3.57

Orlando, FL

Aug 2022 – December 2024

**Relevant Coursework:** Object Oriented Programming, Data Structures & Algorithms 1 & 2, Computer Architecture

## PROJECTS

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### Chess 10 | *React, Tailwind, Typescript, Three.js, Vanta.js, Blender, WebSocket*

2023

- Collaborated in a team to develop **Chess 10**, a groundbreaking 3D chess game with re-imagined rules, which won first place among over 1,200 participants at the 2023 ShellHacks Hackathon. Utilized React, Tailwind, and Vanta.js to create an animated 3D background and an intuitive UI.
- Leveraged technologies like Three.js and Blender to create and animate detailed 3D models. Used WebSockets to implement smooth multiplayer across multiple game rooms.

### Overtone | *Next, React, Tailwind, RadixUI, Lambda, Cognito, OpenAI, Polly, DynamoDB, Go, Docker, AWS*

2023

- Led a team of developers to create a user-friendly text-to-speech platform, leveraging AWS Polly to empower users with customizable voice outputs, including voice type selections, pitch modifications, and speed adjustments; built a polished frontend using with React, Next.js, RadixUI, and Tailwind CSS.
- Coded a scalable backend using Go, incorporating AWS Lambda, Cognito, and DynamoDB to ensure scalability and security; seamlessly embedded an interactive AI chatbot powered by OpenAI, enhancing user engagement and conversation quality.

### Major Mentor | *Astro, React, Tailwind, Django, CockroachDB, TypeScript, Nginx, OpenAI, AWS Lightsail*

2023

- Engineered a robust backend using Django and OpenAI API for [majormentorucf.com](https://majormentorucf.com), a web application that generates customized academic guidance for students in the form of downloadable PDFs.
- Constructed an intuitive and responsive frontend using Astro, React, and Tailwind CSS, and successfully deployed the website using AWS Lightsail, ensuring seamless user experience and reliable accessibility.

### Pepsi Website Recreation | *Vite, React, Node, Tailwind, Javascript, Express.js, PostgreSQL*

2023

- Developed a responsive and visually appealing Pepsi website replica using React.js, Vite, and Tailwind CSS, showcasing strong front-end development skills.
- Designed and implemented a powerful RESTful backend infrastructure for the recreated Pepsi website, utilizing Express.js and PostgreSQL. Developed and maintained a robust set of REST APIs that seamlessly handled data retrieval, manipulation, and storage, ensuring efficient communication between the front-end and the database.

## EXPERIENCE

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### Software Engineer CWEP

May 2023 - Present

Lockheed Martin

Orlando, FL

- Developed a data reduction tool to extract and analyze BIT Code errors sent from the aircraft, subsequently generating detailed reports on the Apache helicopter via Excel files.
- Revitalized essential software using **C++** to update an Aircraft Simulator GUI that will connect to the Apache hardware's embedded code and return critical data.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, C#, JavaScript, TypeScript, HTML, CSS, SQL, PHP, Ruby, Clojure, Elixir, Shell, Go

**Frameworks:** React, Node, Vue, Angular, Vite, Next Nuxt, Express, PostgreSQL, MySQL, NoSQL, Prisma, WebSocket, GraphQL, Tailwind, Bootstrap, jQuery, Azure, AJAX, OpenAI, Django, Nginx, AWS Lambda, AWS Cognito, AWS DynamoDB

**Developer Tools:** Git, Visual Studio, PyCharm, Eclipse, Docker, Kubernetes, Vercel, AWS, Apollo, Jira, Unix/Linux, VxWorks, Unity