

KAI MCFARLANE

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EDUCATION

Bachelor of Science in Computer Science

University of Florida | Gainesville, FL

May 2026

GPA: 3.59/4.0

TECHNICAL SKILLS

Programming Languages: Python, C++, Javascript, TypeScript, SQL, C#, Java, HTML, CSS, JSX/TSX/EJS

Frameworks: React.js, Next.js, AngularJS, Node.js, Flask, Passport.js, Chart.js, TailwindCSS, NextUI, DaisyUI, MaterialUI,

Development Tools: AWS, Docker, Web-Sockets, API, MongoDB, OracleDB, Heroku, Vercel, Unity, Jira, Git, GitHub, GitLab

WORK EXPERIENCE

InfoTech

June 2024 - August 2024

Software Engineer Intern

Gainesville, FL

- Developed graphical Gantt Project Manager interface using Next.js (SSG), Typescript, MongoDB, and the Jira API to prevent time spent on repetitive manual data entry (**100% decrease**).
- Engineered **custom** UI/UX components with NextUI, TailwindCSS, and Canva, to match InfoTech's design patterns.

The Walt Disney Company

January 2024 - June 2024

Software Engineer Intern

Orlando, FL

- Created an **offline mode** feature for a seating application utilized in Walt Disney World attractions, employing Angular, Angular Material, and Flask.
- Orchestrated **near-real-time** connections across multiple devices using WebSockets and APIs.
- Achieved a significant reduction (**90-95%**) in the number of guests missing the initial pre-show at Disney's Flight of Passage due to connectivity issues.
- Selected as the **sole** intern within the GE&T department to deliver an executive presentation to Disney executives, showcasing my comprehensive internship project, particularly focusing on the offline mode implementation.

UFIT

January 2023 - December 2023

Assistant Software Developer

Gainesville, FL

- Optimized user experience across the entire ONE.UF application that serves as **60,000** students' primary school portal by analyzing UF student analytical data and leveraging React.js, Material UI, Node.js and OracleDB.
- Developed an extensible **Fav-Menu** React component allowing for easy integration within the UF Workspace Card's UI, and all user roles.
- Created Favorites Tab within the student UF Workspace through a sorting algorithm, ES6 mapping functions, and a new Favorite Card State.

The Museum of Discovery and Science

November 2020 - June 2022

Lead Software Developer Intern

Fort Lauderdale, FL

- Designed AR (Augmented Reality) animations with Unity, Mixamo, and Vuforia into educational novels.
- Worked with C# and Unity to design visual illusions, create games, and explain natural phenomena.
- Promoted to **Lead Software Developer** within engineering team and received management recognition for completing courses in C# and Unity outside of internship hours.
- Chosen as a **top intern** to interview with **CBS4 news** to explain the MODS APP-titude Internship Program.

TECHNICAL PROJECTS

The Lens Link

January 2024 - Present

Ecommerce, Media, and Software Company (Owner and Founder)

Sunrise, FL (Remote)

- Designed an **ecommerce platform** for optometries to sell eyewear products online utilizing adaptive marketing techniques, artificial intelligence, and data analysis (thelenslink.com).
- Creating mobile app with React Native with innovative image processing and **camera recognition capabilities**.
- Developing Reese Vision Care website leveraging Next.js, Vercel, DaisyUI, and TailwindCSS.

Recipeat

August 2022 - December 2022

Personal Recipe App

Gainesville, FL

- Developed Recipe App allowing users to create, remove, and update recipes, designed with Bootstrap/CSS.
- Used Bcrypt (encryption software) to **hash/salt** users passwords and MongoDB to store passwords/recipes.
- Built **user-authentication** functionality through Express.js, Passport.js, and routing with Node.js.