

KIRK LEFEVRE

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EDUCATION

University of Central Florida

Bachelor of Arts in Computer Science, Minor in Mathematics

GPA: 3.4

Aug 2021 – May 2025

Relevant Coursework & Extracurriculars

Data Structures & Algorithms 1 & 2, Programming Languages, Software Engineering, Operating Systems

Hack@UCF, SHPE

EXPERIENCE

Enterprise Quality Intern

Johnson & Johnson

May 2024 – Aug 2024

Miami, FL

- Conducted data analysis to assess the impact of technical assessments on supplier performance, leading to actionable insights and 100% data-driven decision-making.
- Integrated generative AI capabilities into the team's flagship software, enhancing data retrieval efficiency by 25% and improving relevance across departments.
- Designed an all-in-one portal consolidating 4+ applications into a single interface, reducing user navigation time by 83% and increasing user satisfaction.
- Led data cleaning and updating initiatives, ensuring 3,000+ outdated or low-quality records met new standards and enhancing data integrity.

Software Developer Intern

Limbitless Solutions

May 2023 – Jan 2024

Orlando, FL

- Spearheaded the integration of TensorFlow Lite's DeepLabv3 model into a Flutter app, achieving 70% accuracy and boosting performance by 25% with a custom Machine Learning model.
- Optimized an AR mapping app for Mac, increasing speed by 80% and accuracy by 90% using Apple's vision framework.
- Collaborated across interdisciplinary teams to deliver high-quality, user-centric solutions, employing agile and scrum methodologies.

PROJECTS

ShelfSense AI | Firebase, Next.js, React.js, Google Gemini, Meta Llama 3.1

Feb 2023 – May 2023

- Engineered an AI Pantry Tracker application using Next.js, React, Firebase, and Vercel, integrating Gemini 1.5 Nano and Llama 3.1 8B, resulting in 100% recipe generation accuracy.
- Designed a dynamic user interface with Material UI, implemented backend data management with Firebase, and deployed the application with CI/CD pipelines on Vercel, reducing deployment time by 50%.
- Collaborated with industry experts and integrated feedback, leading to a 25% improvement in application performance and user satisfaction through effective community-building efforts.

Buccee Buddy | MongoDB, Express.js, React.js, Node.js, Flutter, Jest

June 2023 – Aug 2023

- Developed a full-stack web app with Express.js for the API, React for the frontend, and Jest for unit tests, resulting in a 30% reduction in bug reports.
- Implemented bcrypt for password hashing, JWT for secure authentication, and dotenv for managing sensitive info.
- Enabled Buccee's enthusiasts to track their visits to nearly 50 locations nationwide and log their purchases.
- Enriched user experiences by building a user-friendly interface for recalling and sharing their adventures.

Virtual Machine | C

Feb 2023 – May 2023

- Developed and optimized a Virtual Stack Machine in C, establishing a self-contained programming environment with 100% accurate variable storage and arithmetic operations.
- Constructed a Virtual Lexer that successfully parsed and tokenized 100% of program commands, improving the stack machine's interpretive capabilities and reducing parsing errors by 35%.
- Crafted a PL/0 Code Generator that improved system performance by 25% and reduced compilation time by 20% through efficient translation of high-level commands into PL/0 instructions.

TECHNICAL SKILLS

Languages: C, C++, C#, Java, JavaScript, Typescript, HTML/CSS, Python, Haskell, MySQL

Frameworks: NodeJS, ExpressJS, ReactJS, NextJS, Flutter, Jest, Tensorflow

Developer Tools: Git, Github, VS Code, XCode, MongoDB, SQL, Redis, Firebase, Heroku, Vercel, IntelliJ

Libraries: Pandas, NumPy, Matplotlib