

KIRK LEFEVRE

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EDUCATION

University of Central Florida <i>Bachelor of Science in Computer Science, Minor in Mathematics</i>	Aug 2021 – May 2025
	GPA: 3.4

EXPERIENCE

NextGen IT - ML <i>Souther Glazer's Wine & Spirits</i>	July 2025 – Present
<ul style="list-style-type: none">Constructed a collection of AI agents to assist analysts in diagnosing the cause of low performance Demand Forecasting Units & common supply chain hiccups, increasing diagnostic efficiency by 70%.Assisted in adding logging, refactoring, & generally improving existing ML pipelines for improved efficiency, updatability, & readability.	Miramar, FL
Enterprise Quality Intern <i>Johnson & Johnson</i>	May 2024 – Aug 2024
<ul style="list-style-type: none">Integrated generative AI capabilities into the team's flagship software, enhancing data retrieval efficiency by 65% & improving relevance across departments.Designed an all-in-one portal consolidating 4+ applications into a single interface, reducing user navigation time by 83% & increasing user satisfaction.Led data cleaning & updating initiatives, standardizing 3,000+ outdated & inconsistent records & enhancing data integrity.	Miami, FL
Software Developer Intern <i>Limbitless Solutions</i>	May 2023 – Jan 2024
<ul style="list-style-type: none">Spearheaded the integration of TensorFlow Lite's DeepLabv3 model into a Flutter Android app, achieving 70% accuracy & boosting performance by 25% with a custom Machine Learning model.Optimized an AR mapping app for Mac, increasing speed by 80% & accuracy by 90% using Apple's vision framework.Collaborated across interdisciplinary teams to deliver high-quality, user-centric solutions, employing agile & scrum methodologies.	Orlando, FL

PROJECTS

HTTX: HoloTable Top Exercise <i>C#, Unity, HighGround</i>	Sept 2024 – Apr 2025
<ul style="list-style-type: none">Engineered a 7-phase system with bidirectional navigation, enabling instructors to dynamically progress or revert scenarios while preserving NPC states.Optimized custom pathfinding algorithms to ensure smooth movement across complex environments.Ported simulation to Android & iOS, including a physics & pathfinding redesign, achieving near-native performance.Developed core interaction systems (e.g., driving, shooting) & role-specific UI components adapted for mobile & PC.	
PokeType AI <i>Python, PyTorch, Pandas</i>	Nov 2024 – Dec 2024
<ul style="list-style-type: none">Designed & trained a PyTorch CNN (custom architecture with dropout/augmentation) to classify Pokémon into 16 possible types (e.g., Water, Fire, Psychic), achieving 90% accuracy.Engineered a dynamic dataset loader to address class imbalance, ensuring equal representation across types with 500+ images per category.Implemented early stopping, LR scheduling, & heavy augmentation (flips, rotations, color jitter) to prevent overfitting on limited data.	
Virtual Machine <i>C</i>	Feb 2023 – May 2023
<ul style="list-style-type: none">Developed & optimized a Virtual Stack Machine in C, establishing a self-contained programming environment with 100% accurate variable storage & arithmetic operations.Constructed a Virtual Lexer that successfully parsed & tokenized 100% of program commands, improving the stack machine's interpretive capabilities & reducing parsing errors by 35%.Crafted a PL/0 Code Generator that improved system performance by 25% & 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, JQuery, Flutter, Jest, Tensorflow

Developer Tools: Git, Github, XCode MongoDB, SQL, Firebase, Heroku, Vercel, Pandas, Matplotlib