

# KIRK LEFEVRE

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## EDUCATION

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

<b>NextGen IT - ML</b> <i>Souther Glazer's Wine &amp; Spirits</i>	July 2025 – Present Miramar, FL
<b>Enterprise Quality Intern</b> <i>Johnson &amp; Johnson</i>	May 2024 – Aug 2024 Miami, FL
<b>Software Developer Intern</b> <i>Limbitless Solutions</i>	May 2023 – Jan 2024 Orlando, FL

**NextGen IT - ML** | *Souther Glazer's Wine & Spirits* | July 2025 – Present | Miramar, FL

- 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.

**Enterprise Quality Intern** | *Johnson & Johnson* | May 2024 – Aug 2024 | Miami, FL

- 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- Led data cleaning & updating initiatives, standardizing 3,000+ outdated & inconsistent records & enhancing data integrity.

**Software Developer Intern** | *Limbitless Solutions* | May 2023 – Jan 2024 | Orlando, FL

- 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.

## PROJECTS

<b>HTTX: HoloTable Top Exercise</b>   <i>C#, Unity, HighGround</i>	Sept 2024 – Apr 2025
<ul style="list-style-type: none"><li>Engineered a 7-phase system with bidirectional navigation, enabling instructors to dynamically progress or revert scenarios while preserving NPC states.</li><li>Optimized custom pathfinding algorithms to ensure smooth movement across complex environments.</li><li>Ported simulation to Android &amp; iOS, including a physics &amp; pathfinding redesign, achieving near-native performance.</li><li>Developed core interaction systems (e.g., driving, shooting) &amp; role-specific UI components adapted for mobile &amp; PC.</li></ul>	
<b>PokeType AI</b>   <i>Python, PyTorch, Pandas</i>	Nov 2024 – Dec 2024

**HTTX: HoloTable Top Exercise** | *C#, Unity, HighGround* | Sept 2024 – Apr 2025

- Engineered a 7-phase system with bidirectional navigation, enabling instructors to dynamically progress or revert scenarios while preserving NPC states.
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- Developed core interaction systems (e.g., driving, shooting) & role-specific UI components adapted for mobile & PC.

**PokeType AI** | *Python, PyTorch, Pandas* | Nov 2024 – Dec 2024

- 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** | *C*

Feb 2023 – May 2023

- 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