Alexander Klein

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EDUCATION

University of Florida, College of Engineering — Gainesville, FL

Bachelor of Science in Computer Science, Minor in Economics **GPA: 4.00** — May 2026

Relevant Courses: Data Structures and Algorithms, Operating Systems, Advanced Programming Fundamentals

J.P. Taravella High School — Coral Springs, FL

Valedictorian, Rank 1/558, GPA: 5.36 — August 2018 — June 2022

EXPERIENCE

Software Engineer Intern (STEM Program) — June 2024 — August 2024

Akima — *Herndon, VA*

- Maintained the web-based Navy-Marine Corps Mobilization Processing System, using **ASP.NET** and **SQL**
- Developed an XR Construction Design application for Meta Quest 3 using **Unity3D with C#**, supporting online multiplayer for **20+ users**
- Collaborated with multidisciplinary interns nationwide using Jira and Confluence to maintain an agile workflow

Web Developer — January 2024 — May 2024

UF ACM Design Team — *Gainesville, FL*

- Led a team of **4 engineers** in the comprehensive redesign of the organization's website using **React**
- Developed a modern user interface by leveraging **Framer Motion** and **TailwindCSS**
- Successfully deployed and marketed the final product, increasing user base by **200+ users**

PROJECTS

File System Daemon | *C++, FUSE* — April 2024

- Developed a userspace filesystem daemon using the **FUSE API** to read from and write to WAD files
- Constructed a **C++** library to parse and manipulate WAD file headers, descriptors, and lump data
- Integrated unit tests with GoogleTest to achieve **90% code coverage** across library functions

Mental Health App | *React Native, Firebase, Gemini* — March - April 2024

- Designed a cross-platform mobile app using **React Native** with an AI mental health coach, journal, and task list
- Implemented a mental health coach by leveraging prompt engineering with **Google's Gemini API**
- Integrated **Firebase** for email/password authentication and cloud storage

Chess Data Analyzer | *Python* — December 2023

- Spearheaded a team in evaluating 100,000+ chess match data points using **Python's CSV library**
- Presented user-selected data on opening rankings, player reports, and high-level matches
- Optimized sorting algorithms from quick to merge, **decreasing sorting time by 95%**

LEADERSHIP

Internal Vice President | *UF Association for Computing Machinery* — May 2023 - Present

- Founded the ACM Design Team, interviewed and collaborated with members on web development projects
- Began a club newsletter, showcasing events, computing careers, and opportunities for **300+ recipients**
- Coordinated professional, social, and technical events for **2000+ members**

SKILLS

Languages: Python, C/C++, C#, HTML/CSS, JavaScript, SQL, MATLAB

Frameworks: React, React Native, Tailwind

Developer Tools: Git, GitHub, Jira, Azure DevOps, Firebase, Visual Studio, VSCode, JetBrains, SQL Server

Certifications: Agile Project Management, DevOps Professional, Fusion 360, Adobe Photoshop CC 2015