

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

SKILLS

Languages: Python, C/C++, C#, HTML/CSS, JavaScript, SQL, MATLAB
Frameworks: React, React Native, Tailwind, GoogleTest
Developer Tools: Git, Jira, Azure DevOps, SQL Server, Google Cloud

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#**
- Utilized **Photon PUN** for object networking and online multiplayer support for **20+ users**

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 OAuth** for email/password authentication and **Firestore** for 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**