

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++, JavaScript, HTML/CSS, C#, SQL

Frameworks: React, React Native, Node.js, Tailwind, Cloud Firestore

Developer Tools: Git, Firebase, Jira, Azure DevOps, SQL Server

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, utilizing **Unity3D** with **C#**
- Implemented real-time multiplayer using **Photon PUN**, supporting simultaneous collaboration for **20+ users**

Web Development Lead

January 2024 — May 2024

UF ACM Design Team

Gainesville, FL

- Led an agile team of **4 developers** in the comprehensive redesign of the organization's website using **React**
- Implemented an attendance tracking system for **300+ users** using **Firestore**, reducing data calculation by **83%**
- Designed a modern UI with **Framer Motion** and **Tailwind CSS**, producing a **65% increase** in user engagement

PROJECTS

File System Daemon | C++, FUSE

April 2024

- Developed a userspace filesystem daemon using the **FUSE API** to perform read/write operations on WAD files
- Constructed a **C++** library to parse and manipulate WAD file headers, descriptors, and lump data
- Integrated unit tests with **GoogleTest** to achieve **80% 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 techniques with **Google's Gemini API**
- Integrated user authentication using **Firebase OAuth** and utilized **Firestore** for cloud storage and retrieval

Chess Data Analyzer | Python

December 2023

- Led a team in developing a chess analytics tool using **Python** to evaluate **100,000+ chess match data points**
- Presented user-selected data using the **CSV library** on opening rankings, player reports, and high-level matches
- Optimized algorithms, transitioning from quick to merge sort, resulting in a **96% reduction** in sorting time

EXTRACURRICULAR

Internal Vice President | UF Association for Computing Machinery

May 2023 - Present

- Coordinated **12 officers** in the execution of professional, social, and technical events for **2000+ members**
- Founded and led the ACM Design Team, managing and collaborating on **2 software development projects**
- Began a club newsletter, showcasing events, computing careers, and opportunities for **300+ recipients**

Social Media Influencer | TikTok, Instagram

May 2024 - Present

- Created hairstyling content across TikTok and Instagram, growing to **22k+ followers** and **2m+ likes**
- Collaborated with brands like **Based Bodyworks**, **Simpletics**, and **Glaker** to promote hair products
- Leveraged SEO strategies and content gap optimization to achieve over **27 million views**