Alexander Klein

alexandergeorgeklein@gmail.com | linkedin.com/in/alexanderkleincs | github.com/a1exanderklein | a1exanderklein.github.io

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*

- Worked in an Agile Scrum team to maintain the web-based Navy-Marine Corps Mobilization Processing System, streamlining the mobilization of reserve forces
- Developed an XR Construction Design application for Meta Quest 3 using Unity3D with C#, supporting online multiplayer (up to 20 users)
- Collaborated with multidisciplinary interns nationwide using Jira and Confluence to maintain an agile workflow

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
- Migrated to Firebase for email/password authentication and cloud storage, improving data security by 100%

ACM Website | *React, JavaScript* — March 2024

- Orchestrated a design team 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, resulting in a 700% increase in online engagement

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 monthly newsletter, showcasing events, computing specializations, 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

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

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