

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 2025

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

SKILLS

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

Frameworks: React, React Native

Developer Tools: Git, Firebase, Visual Studio Code, CLion, PyCharm

Certifications: Fusion 360, Adobe Photoshop CC 2015

PROJECTS

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 96% increase in online engagement

Chess 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
- Externally compared the time efficiency of merge and quick sort algorithms

Phone Guru | *Python, JavaScript, HTML/CSS*

October 2023

- Led a multidisciplinary team for the Verizon/UF AI Days hackathon
- Designed a web app with AI-driven smartphone recommendations based on user data using OpenAI's GPT-4 API
- Applied Python, BeautifulSoup, and Requests for web scraping to train the model with current smartphone data

Minesweeper | *C++*

July 2023 – August 2023

- Reimagined the popular logic puzzle game utilizing an original UI
- Employed the SFML library for textures and C++ on the backend

EXPERIENCE

Lifeguard & Swim Instructor

October 2021 — June 2022

City of Coral Springs

Coral Springs, FL

- Maintained an incident-free record by ensuring the safety of patrons in swimming and fitness facilities
- Conducted swim lessons for individuals of varying skill levels with a 96% improvement rate
- Worked collaboratively with a team of lifeguards to maintain a safe and enjoyable environment

Lead Lifeguard & Swim Instructor

May 2021 — September 2021

Jeff Ellis Management

Tamarac, FL

- Maintained vigilance by scanning swimmer protection zones in accordance with the E&A Protection Rule
- Conducted swim lessons for children of varying skill levels within an age range of 3-10
- Led a team of lifeguards in varying crews to uphold a safe environment

LEADERSHIP

Secretary | *UF Association for Computing Machinery*

May 2023 - Present

- Founded the ACMake Design Team, interviewed and collaborated with members on web development projects
- Began a monthly newsletter, showcasing events, computing specializations, and careers for 300+ recipients
- Coordinated professional, social, and technical events for 1900+ members