Kameron Benjamin

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EDUCATION

Florida Agricultural and Mechanical University, B.S. in Computer Science, Major GPA: 3.3 *Aug 2023 - May 2027*
Relevant Coursework: Discrete Mathematics I & II, Object Oriented Programming, Data Networks & Communication, Database Management, Data Structures & Algorithms, Computer Ethics and Professional Responsibility, Algorithm and System Design, Intro to Software Engineering
Organizations: Google CodePath Tech Exchange, FAMU Marching "100" Band, Strikers Dance Troupe, Kappa Kappa Psi National Honorary Band Fraternity Inc., Color Stack

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, TypeScript, SQL, HTML/CSS
Frameworks & Tools: FastAPI, Docker, AWS (EC2, Lambda), Git, GitHub, Jupyter/Colab, Node.js, React, Next.js, React Native, Three.js, REST APIs
AI / ML: PyTorch, Large Language Models (LLMs), Claude API, Agentic AI Pipelines, Prompt Engineering, Data Processing

WORK EXPERIENCES

UCSC Open Source Program Office, Contributor Catalyst **Santa Cruz, CA**
Open Source Intern | p5.js, Node.js, Git, GitHub, Open Source *May 2026 – Aug 2026*
- Researched packaging the p5.js reference as a downloadable offline release artifact, reviewing the site build and release workflow.
- Mentored fellow cohort participants on Git, GitHub, the command line, VS Code, and open source collaboration.
- Presented Green Guardian at the inaugural PyTorch Santa Cruz Meetup alongside NVIDIA and Red Hat speakers, and was featured in a PyTorch blog post.

Florida Agricultural and Mechanical University **Tallahassee, FL**
Teaching Assistant – Intro Object Oriented Programming in C++ | Object Oriented Programming, Debugging, Data Structures *Jan 2026 – May 2026*
- Supported undergraduate OOP in C++ by reinforcing core concepts, improving student understanding of classes, inheritance, and polymorphism.
- Led three weekly problem-solving sessions for approximately 30 students, reducing debugging time by 10%.
- Assisted students in diagnosing runtime errors, segmentation faults, and logic issues while reinforcing OOP principles.

Outamation **Tallahassee, FL**
AI/Data Automation Extern | LLM, Prompt engineering, RAG Pipelines, Data Cleaning, PyMuPdf *Oct 2025 – Jan 2026*
- Built Python pipelines using LLMs to process and classify large volumes of unstructured business documents, cutting turnaround time by about 30%.
- Improved classification accuracy by about 25% by iterating on prompt engineering workflows that extract, classify, and summarize key information.
- Developed automated data-cleaning and parsing tools, iterating on solutions under ambiguous requirements to balance accuracy, performance, and usability.

PROJECTS

Green Guardian – Full Stack AI Plant Disease Detector | github.com/kameron-ctrl/greenguardian | greenguardian.dev *May 2025 – Oct 2025*
Python, FastAPI, PyTorch, React Native, Expo, Next.js, Docker, AWS (Lambda, ECR, CloudFront)
Web and mobile app that identifies 38 plant disease classes from leaf images in real time.
- Built an image classifier for 38 plant disease classes by fine-tuning a ResNet-18 on PlantVillage, serving real-time predictions via FastAPI.
- Designed RESTful APIs shared by a Next.js web app and a React Native/Expo mobile app, deployed on AWS Lambda, S3, and CloudFront.
- Cut deployment time by about 40% by automating builds and releases with GitHub Actions, including CloudFront cache invalidation.

Airbets – Prediction Market App | *Python, Streamlit, GenAI / LLMs* *Jan 2026 – Present*
- Built the AI Advisor page of a team-built prediction market app in Streamlit, integrating an LLM to give users intelligent guidance.
- Collaborated with teammates using Git-based version control workflows to ship the advisor alongside the rest of the app.

CubeCoach – AI Rubik's Cube Trainer | github.com/kameron-ctrl/cubecoach *Mar 2026 – Present*
Next.js 14, TypeScript, qqThree.js, FastAPI, Python, Claude API, SQLite/PostgreSQL
- Built solo an AI Rubik's Cube trainer with an interactive Three.js cube and a FastAPI backend that uses Claude to explain each move.
- Turned any valid cube state into step-by-step teaching moves by wrapping a Kociemba solver and splitting each solution into steps.
- Built spaced-repetition drills for 78 algorithms (57 OLL + 21 PLL) using the SM-2 scheduler, with SQLAlchemy-backed progress tracking.

LEADERSHIP & CAMPUS INVOLVEMENT

Strikers Dance Troupe **Tallahassee, FL**
President, Assistant Rehearsal Director, Historian *Sept 2023 – Present*
- Led a 40+ member dance troupe as President, delivering 2 concerts per semester, by serving as the group's public face and main point of contact, managing rehearsal logistics and schedules, and coordinating officers so every event ran on time.
- Directed rehearsals and coordinated performances for a group of 40+ men, improving team synchronization and overall performance quality.
- Increased event reach and audience engagement by over 50% by managing and strategizing content across all social media platforms.

Kappa Kappa Psi National Honorary Band Fraternity Incorporated **Tallahassee, FL**
Vice President of Programs, Co-Webmaster *Apr 2025 - Present*
- Planned and executed chapter programming as Vice President of Programs by owning operational planning, coordinating service project execution, and keeping members and officers aligned through internal coordination.
- Maintained and updated the fraternity's website (https://deltaiota.org), improving accessibility and user experience.

Google CodePath **Tallahassee, FL**
Tech Exchange Scholar *Jan 2026 – May 2026*
- Earned selection among 500+ applicants by demonstrating strong technical potential, securing placement in a competitive software engineering program.
- Strengthened proficiency in data structures and algorithms through rigorous practice, improving problem-solving speed and accuracy.