

# Eric George

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## EDUCATION

### University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science GPA: 3.847/4.0

May 2027

**Relevant Coursework:** Data Structures and Algorithms, Discrete Structures, Computer Hardware, Object Oriented Programming, Computer Security, Linear Algebra, Enterprise Computing

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, TypeScript, PHP, .NET, SQL, Kotlin, Ruby

**Frameworks/Libraries:** React, React Native, Next.js, TailwindCSS, Astro, Supabase, MongoDB, PyTorch, FastAPI, LangChain, NumPy, AWS (Lambda, EC2, S3), Azure, Docker, Vercel, CI/CD Pipelines, GitFlow Branching, Linux

**Tools & Platforms:** Redis, Google ADK, Bedrock, Gradle, Git

## PROFESSIONAL EXPERIENCE

### Software Engineer Intern

Aug. 2024 – Present

Siemens Energy

Orlando, FL

- Developed a Java frontend for a computational app used by **1,000+ engineers**, integrating Python/Matlab scripts and optimizing UI for **20% faster load times**.
- Maintained a CI/CD pipeline for efficient testing, deployment, and continuous application updates, automating releases and **reducing deployment time by 50%**.
- Implemented GitFlow branching strategy utilizing feature branches and pull requests, **accelerating feature integration by 30%** and reducing code review cycle time by **15%**.
- Enhanced SharePoint infrastructure to improve accessibility and centralization of internal tools, enabling **wider cross-team adoption** and streamlining workflow efficiency across departments.

## PROJECTS

### Emergent | Next.js, React, TypeScript, TailwindCSS, Framer Motion, Google ADK, Gemini, FastAPI

- Won **Best Overall Hack** at KnightHacks 2025 and secured **2nd Place in the Google ADK Challenge** for innovation in AI-driven human behavior simulation.
- Developed an AI-powered crisis simulation platform that models the reactions of **50+ unique personas** through a 13-phase disaster timeline to aid emergency managers in training and response planning.
- Engineered a full-stack system integrating a Next.js/React frontend with a FastAPI backend and Google ADK + Gemini for intelligent multi-agent simulation, achieving realistic human behavior modeling.
- Implemented concurrent agent simulation via ADK's ParallelAgent **reducing latency by 60%** and enable real-time visualization of persona interactions on a dynamic GIS map.

### VEGA | Next.js, React, TypeScript, Supabase, Google ADK, Gemini, FastAPI

- Engineered an AI-powered video engagement growth agent that evaluates content using simulated demographic audiences, enabling creators to identify strategies that maximize retention and engagement.
- Integrated Gemini with FastAPI and Google ADK to deploy specialized category-based agents (e.g., Music, Tech, Fashion), powering real-time audience simulations and cutting response latency by **up to 15x**.
- Directed a cross-functional team of 4 during ShellHacks 2025 to design, develop, and present a fully functional prototype in 36 hours, ensuring seamless integration across frontend, backend, and AI systems.

### UCF SASE Website | Next.js, Supabase, PostgreSQL, TypeScript

- Developed and deployed the official UCF SASE website serving **300+ active users**, centralizing event information, resources, and membership tools to enhance community engagement.
- Implemented secure authentication, event management dashboards, and a admin board, **streamlining administrative tasks for 15+ officers** and reducing manual workflows by **over 50%**.

## LEADERSHIP EXPERIENCE

### Computer Science Technical Chair

Jun. 2025 – Present

Society of Asian Scientists and Engineers (SASE)

Orlando, FL

- Organized and led engaging technical workshops on web development, AI, and algorithms, fostering an inclusive learning environment and boosting **CS-related participation by 35%**.