

# Cameron Brown

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## EDUCATION

### Georgia State University

December 2027

*Bachelor of Science in Computer Science*

**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Python Programming, Applied Probability and Statistics, Computer Architecture, Discrete Mathematics, Linear Algebra

## EXPERIENCE

### Software Engineering Intern | TAG — Georgia State

August 2026 – Present

- Engineered a mentor-matching web app with React, Node.js, and PostgreSQL, pairing 30+ students with mentors by course and career goals
- Automated the chapter's manual spreadsheet matching process, reducing coordinator setup time by 90% (4 hours → 20 minutes)
- Built QR-code event check-in with Express and PostgreSQL, tracking attendance for 40+ members across 5 events

## TECHNICAL SKILLS

**Languages:** Python, JavaScript/TypeScript, Ruby, SQL, Java, HTML/CSS, Go, C, C++

**Tools/Databases:** MongoDB, PostgreSQL, Redis, SQLite, Firebase, Supabase, Docker, Git, AWS(EC2, S3, Lambda), Kubernetes, CI/CD, Azure, Google Cloud, Vercel

**Frameworks/Libraries:** React, Next.js, Angular, Rails, Spring Boot, ASP.NET, Jotai, TanStack Query, Jest, Playwright, Node.js, Express, Flask, FastAPI, Tailwind CSS, Socket.IO

**Certifications:** Pursuing AWS Solutions Architect - Associate

## PROJECTS

### LineLock | *Next.js, React, TypeScript, Ruby on Rails, Action Cable, WebSockets* – [GitHub](#) | [Live Demo](#) August 2026

- Developed a live prop board with React, TypeScript, and WebSockets, resulting in updates with no refresh.
- Engineered matching Node and Rails 8 APIs behind one contract, resulting in a backend swap from one env var.
- Optimized feed memory with a 48-tick ring buffer, resulting in a hard cap of 48 ticks per prop.

### SignalDesk | *Python, FastAPI, SQLAlchemy, JavaScript, Docker, Azure OpenAI* – [GitHub](#) | [Live Demo](#) September 2026

- Engineered an AI triage agent with FastAPI and 4 tool calls, reaching 70% routing accuracy on 20 incidents.
- Built an evaluation harness that exposed 2 routing bugs, raising accuracy from 45% to 70%.
- Designed a ServiceNow-compatible API behind an adapter, enabling a live-instance swap via 3 env vars.
- Deployed to Azure App Service with Bicep infrastructure-as-code through a one-command deploy script.

### Scrubble | *React, TypeScript, Python, FastAPI* – [GitHub](#) | [Live Demo](#) September 2026

- Developed a React and FastAPI player to scrub 59,061 frames of soccer tracking data like video, placing top 3 at the US Soccer × ColorStack hackathon.
- Engineered a byte-offset index so any frame in a 90 MB file loads without reading the whole match into memory.
- Built 0 - 10s GIF and MP4 clip export with team colors and live possession, so a sequence can be shared without the raw dataset.
- Optimized canvas playback to stay smooth at display rate while the tracking data stays at 10 fps.

### Network Operations Console | *Next.js, TypeScript, Power BI* 2026

- Developed a ServiceNow-style incident console in Next.js and TypeScript, with SLA, assignment, and work notes across 52 incidents in 5G, fiber, VPN, and voice.
- Engineered a Power BI star schema and 4 DAX measures that match the app on volume, SLA attainment, and mean time to resolve.
- Implemented an agentic triage workflow that flags repeat outages and drafts a work note the operator can apply, with a swap point ready for Azure OpenAI.

## LEADERSHIP AND INVOLVEMENT

**Event Organizer — progsu:** Organized career events for Georgia State's largest student org in history (1800+ members) connecting students with hiring managers from different companies

**Mentorship Program Lead — ColorStack:** Advised 100+ students on CS course planning and mentored them through core CS courses, including resume reviews and introductions to hiring managers

## COMPETITIVE ACHIEVEMENTS

**Hackathons:** Top 3 - US Soccer × ColorStack Tech League Hackathon, 2nd Place - Design Derby

**Mentorship Program Lead — ColorStack:** Advised 100+ students on CS course planning and mentored them through core CS courses, including resume reviews and introductions to hiring managers