

Cailean M. Matthews

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EDUCATION

University of North Carolina at Charlotte <i>M.S. in Computer Science</i>	Charlotte, NC <i>Expected May 2027</i>
University of North Carolina at Charlotte <i>B.S. in Computer Science (GPA: 3.8 Chancellor's List)</i>	Charlotte, NC <i>Expected May 2026</i>
Central Piedmont Community College <i>Associate of Arts</i>	Charlotte, NC <i>May 2024</i>

TECHNICAL SKILLS

- Languages:** Python, TypeScript, JavaScript
- Backend & APIs:** FastAPI, Django, RESTful APIs, OAuth2, PostgreSQL, SQLite
- Frontend:** React, Tailwind CSS
- Cloud & DevOps:** AWS EC2, Docker, Linux, CI/CD, GitHub Webhooks

PROJECTS

FAIR <i>React, FastAPI, AWS EC2, Docker, CI/CD</i>	January 2026
• Designed and built a real-time stock analytics platform consuming live market data and financial news via external APIs, supporting per-stock historical analysis and market-wide summaries.	
• Implemented a RESTful backend using FastAPI and deployed the full-stack system to AWS EC2 with Dockerized services.	
• Built an automated CI/CD pipeline using GitHub webhooks to enable zero-downtime push-to-deploy updates.	
• Collaborated on a 4-person engineering team during the LPL Financial Hackathon , contributing across frontend and backend components.	
Toolbox.AI <i>FastAPI, React, OAuth2, WebSockets</i>	October 2025
• Architected a scalable LLM-powered web application with a FastAPI backend and React frontend, supporting real-time token streaming for low-latency responses.	
• Implemented secure OAuth2 authentication and persistent chat history storage using SQLite .	
• Designed and built a responsive UI using Tailwind CSS , contributing to winning Best UI/UX at the UNC Charlotte CCI Startup Hackathon.	
UNCC Tutor <i>Django, PostgreSQL, Agile</i>	April 2025
• Developed a tutoring management platform using Django following the MVT architecture pattern.	
• Designed and implemented a PostgreSQL schema supporting complex relationships between students, tutors, and scheduling availability.	
• Worked in an Agile team of 5 engineers, using Git for version control, Trello for sprint planning, and enforcing structured code reviews.	

LEADERSHIP

HAVK Club (UNCC)	Charlotte, NC
<i>Vice President</i>	<i>Present</i>

- Coordinate weekly club meetings, technical workshops, and student engineering initiatives.

HONORS & AWARDS

- 2nd Place Winner & Most Creative** | *HAVK AI and Data Visualization Competition*
- Most Creative Entry** | *HAVK Web Development Competition*
- Best UI/UX** | *UNC Charlotte CCI Startup Hackathon*

CERTIFICATIONS

- DeepLearning.AI & Stanford Online**: Supervised Machine Learning: Regression and Classification (Aug 2025)