

Austin Mangold

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EDUCATION

UNC Charlotte

Bachelor of Science in Computer Science

Expected: May 2028

GPA: 3.95

EXPERIENCE

Software Engineer Intern at Deltek, Remote

June 2026 - August 2026

- Built a full-stack end-to-end application using TypeScript, JavaScript, Node.js, HTML and CSS to evaluate passwordless logins for enterprise customer login workflows.
- Developed REST APIs with Express.js to issue authentication requests and verify hardware credentials.
- Deployed in a Linux environment using Node.js and Cloudflare Tunnel, validating secure API communication.

Research Assistant at UNC Charlotte

August 2026 - Present

- Developing an edge AI prototype using Python, PyTorch, Hugging Face Transformers, and NVIDIA Jetson Orin Nano hardware to support low-latency construction-jobsite decision-making.
- Deploying and benchmarking a 1.86B-parameter Moondream2 vision-language model across image captioning, visual question answering, and object detection tasks.
- Optimizing Moondream2 through 8-bit and 4-bit quantization to improve on-device performance.

Software Developer at ninersoftware, Charlotte NC

April 2026 - Present

- Created a 100+ member software organization building open-source tools that improve outdated university software systems used by UNC Charlotte students.
- Maintained and built full-stack web/mobile applications using TypeScript, JavaScript, React Native, and HTML/CSS, scaling student-facing tools to 4,000+ users.
- Worked with developers to adopt an agile development workflow across multiple applications by utilizing Git, feature planning, and project milestones.

Lead Teaching Assistant at UNC Charlotte

August 2025 - Present

- Led and taught Python and Java programming fundamentals, including object-oriented programming, to 200+ students in introductory computer science courses, through lab sessions.
- Provided one-on-one support by teaching debugging techniques, Git workflows, and software development best practices, as well as grade and proctor examinations.

PROJECTS

Niner Registration

- Developed a browser extension using JavaScript, HTML, CSS, and GraphQL APIs with 1,000+ downloads that enhances UNC Charlotte registration through integrated professor ratings, grade distribution data, and accessible course information.
- Improved extension performance by implementing a hash-based caching system that reduced external API calls and increased repeated lookup speed by 93%.

SKILLS

Programming Languages: Python, Java, C, TypeScript, JavaScript, HTML, CSS, SQL

Frameworks & Libraries: React, React Native, Node.js, Express.js, Next.js, FastAPI, Flask, GraphQL, Vite, AWS

Developer Tools: Git, GitHub, Linux, Bash, VS Code, Jupyter Notebook, Figma, Cursor, Codex