

Zachary Groves

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EDUCATION

Bachelor of Science in Computer Engineering, The University of Alabama, Tuscaloosa, AL May 2028
• Minor in Mathematics and Computer Science; GPA: 3.92/4.00
• Honors College; STEM Path to the MBA Program

TECHNICAL SKILLS

AI Systems and Workflows: LLM applications, retrieval-augmented generation, agent workflows, prompt design, workflow automation, document extraction, evaluation and testing

Software Engineering: TypeScript, Python, SQL, C/C++, web applications, backend APIs, relational databases, cloud deployment, payments, data visualization

EXPERIENCE

AI Acceleration Intern, ISG (Information Services Group), AI Acceleration Intern Program Jun 2026 - Present

- Build AI-enabled consulting and advisory accelerators for strategy, sourcing, proposal, and executive-ready workflows.
- Translate ambiguous enterprise workflows into scoped prototypes, reusable prompt/workflow libraries, demo plans, and handoff documentation.
- Work inside enterprise governance constraints using OpenAI Enterprise/Codex, Teams, SharePoint, and approved ISG tooling.

Undergraduate Researcher, Digital Twin and VR Rehabilitation Lab, Tuscaloosa, AL Feb 2026 - Present

- Develop AI-driven gait assessment workflows using depth-camera motion tracking and 3D pose estimation models.
- Analyze biomechanical joint kinematics in a real-time Unreal Engine digital twin for rehabilitation research.

Electrical Team Member, Battery Workforce Challenge, Tuscaloosa, AL Jan 2025 - Present

- Evaluate and integrate high-voltage electrical components for an EV battery pack with a multidisciplinary engineering team.

PROJECTS

GradePath, gradepath.app, Tuscaloosa, AL 2025 - Present

- Sole founder and developer of a production academic SaaS platform built with Next.js, Supabase, TypeScript, and Stripe.
- Engineered a Claude-powered RAG tutoring agent with context-aware document retrieval, conversation memory, and structured syllabus parsing.
- Built AI grade prediction and academic planning workflows with 800+ automated tests across the platform.

Agent Operator Skills, Open-Source AI Workflow Toolkit 2026 - Present

- Built and published reusable AI-agent skills for planning, output auditing, security review, SEO audits, changelog generation, CLI scaffolding, and multi-step coding workflows.
- Designed structured review loops and verification gates that make coding agents more reliable across broad product, security, and automation tasks.

LEADERSHIP AND COMMUNITY

President, Alabama ACHA Division III Hockey, Tuscaloosa, AL Mar 2026 - Present

- Manage team operations and a \$130,000 annual budget while coordinating with university leadership and ACHA officials.

President, UA Artificial Intelligence Club, Tuscaloosa, AL May 2026 - Present

- Organize AI/ML learning opportunities and member engagement for a 300+ member student AI community.

Entrepreneurial Lead, NSF I-Corps/Aldag Competition, Tuscaloosa, AL Mar 2025 - Present

- Conducted 50+ customer discovery interviews for an AI education startup and placed 2nd in the Aldag Business Competition.

HONORS

- UA Presidential Scholar, The University of Alabama Aug 2024 - Present
- National Honor Society May 2024
- President's List, The University of Alabama Spring 2025, Fall 2025, Spring 2026
- Devils Youth Foundation and Big North Student-Athlete Scholarship Recipient May 2024
- Pascack Varsity Hockey: Captain, MVP, Coaches Award, 1st Team All-League, 3rd Team All-State Sept 2020 - Mar 2024
- Pascack Hills Varsity Lacrosse: Captain, MVP, MIP, 1st Team All-League Mar 2022 - Jun 2024