

Colin McNally

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EDUCATION

Worcester Polytechnic Institute (WPI)

B.S. Computer Science

Worcester, Massachusetts

Aug 2023 - Present

RELEVANT COMPLETED COURSEWORK

Core CS & Systems: Operating Systems, Algorithms, Database Systems I, Object-Oriented Design Concepts, Systems Programming Concepts, Introduction to Machine Org & Assembly Language, Introduction to Program Design

Math & Theory: Discrete Mathematics, Foundations of Computer Science

AI: Applied Natural Language Processing & Large Language Models

SKILLS & INTERESTS

Languages: Python, TypeScript, C++, Java, JavaScript, SQL, C, Dart, R

Frameworks & Tools: React.js, Next.js, Node.js, Flutter, Firebase, Git, GitHub, Drizzle ORM, Clerk, Stripe

Technologies: REST APIs, AWS, Figma, Android Studio, Recharts

Areas of Interest: Full-Stack Engineering, AI/ML, Data Visualization, EdTech, Developer Tools

PROJECT EXPERIENCE

AveryAI | Next.js, React.js, TypeScript, Clerk, Stripe, Drizzle ORM, Vercel Blob, LLM APIs, MCPs

Jun 2025 - Sep 2025

- Engineered core features including Vercel Blob file pipelines, secure authentication, and scalable backend services with Clerk, Stripe, and Drizzle ORM.
- Built resume workshops, AI-driven mock interviews, and multilingual features powered by LLMs and MCPs, increasing user engagement by 40%.
- Delivered a seamless user experience by integrating modern UI components with AI-driven feedback for career preparation.

VisMath | React.js, TypeScript, Python, Recharts

Apr 2025 - Jul 2025

- Built a math visualization app rendering animated graphs from user-input equations to enhance STEM learning by 65%, and boosting code efficiency by 40% through optimized rendering algorithms.
- Integrated GPT and Math.js for real-time, personalized math explanations and interactive feedback.
- Developed a modular React frontend with a Python API backend for scalability and rapid iteration.

Depress-Minus | Flutter, Dart, Firebase

Jan 2022 - Jun 2023

- Launched a mental health mobile app with features like journaling, mood tracking, and stress relief techniques.
- Led a team to design a Flutter/Dart UI and Firebase database model, ensuring smooth collaboration and timely delivery.
- Integrated authentication, data persistence, and mood trend analysis to improve user experience and retention by 55%.

PROFESSIONAL EXPERIENCE

Dell Technologies STEM Aspire Program

Hopkinton, Massachusetts

Participant

Aug 2025 - Present

- Selected for a competitive program focused on technical and professional development in the tech industry.
- Paired with a Dell mentor and participated in workshops on emerging tech, soft skills, and career readiness.
- Gained exposure to Dell innovations and culture through hands-on learning and networking.

Singularity Softworks

Remote

Full-Stack Software Developer Intern

Jun 2025 - Sep 2025

- Collaborated in Agile sprints to integrate REST APIs and new features into **AveryAI's** platform.
- Enhanced UI/UX workflows in Next.js to streamline candidate interactions and reduce friction in onboarding.
- Contributed to production readiness through bug fixes, peer code reviews, and Docusaurus documentation.

Aquarion Water Company

Shelton, Connecticut

Supply Operations Intern

Jun 2025 - Aug 2025

- Collected and analyzed water quality data (e.g., turbidity, pH, UV254) to evaluate compliance trends and identify anomalies.
- Leveraged SCADA system datasets to monitor water levels, pressures, and chemical feeds, applying exploratory analysis for operational decision support.
- Structured large volumes of operational data in Hach WIMS, producing performance dashboards and regulatory reporting.