

Alex Douglas

Richmond, VA • alexdouglas.dev@gmail.com • (336)-580-0294 • <http://www.linkedin.com/in/douglasalex2002>

Education

James Madison University

Bachelor of Science in Computer Science

Harrisonburg, Virginia

Expected Graduation: May 2026

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Full-Stack Web Development, Computer Systems, App Development, Discrete Structures, and Topics in Data Visualization

Projects & Technical Skills

Mock Interview AI Voice Agent

- Built and deployed an AI-driven mock interview application using React.js to simulate technical and behavioral interviews, helping users improve their interviewing skills.
- Implemented an end-to-end solution with Firebase authentication, Firestore, and Vapi for lifelike voice interactions and robust data management.
- Used Google's Gemini model and advanced prompting to generate targeted questions and feedback, reducing prep time and improving interview readiness.

Hand-Drawn Letter Recognizer

- Built a real-time, hand-drawn letter recognition system that captures on-screen handwriting and preprocesses it with OpenCV.
- Used scikit-learn's Linear SVC, pandas, and joblib to build and serialize models, displaying results in real time with 97% accuracy.

eCommerce Price Tracker

- Developed a Next.js price-tracking app that scrapes Amazon data with Cheerio and Bright Data proxies, storing historical prices via MongoDB
- Implemented automated email alerts for price drops, a Tailwind-based UI, and dynamic product pages for real-time tracking and notifications.

Programming Languages: Java, Python, JavaScript, C, HTML, and CSS

Tools & Technologies: Git, React.js, Node.js, and Next.js, Firebase, and MongoDB

Work Experience

Waterfront Restoration

Job Site Manager

Long Lake, Minnesota

Summers 2022, 2023, 2024

- Led teams of 4–8 to complete projects on time and within budget, coordinating tasks and delegating responsibilities effectively.
- Exceeded efficiency targets with an 118% efficiency rating in timeliness and quality, enhancing project delivery and client satisfaction, while maintaining a 0% failure rate in inspections.

Leadership & Activities

JMU Blockchain Club

President

August 2024 – Present, Member since 2023

- Drove ~250% membership growth through strategic outreach and active recruitment.
- Facilitated a blockchain-focused event with 100+ attendees featuring industry speakers and startups, encouraging student networking and education.

Madison Business Society

Founding-Member

January 2024 – Present

- Led a marketing project that generated 150% ROI with the given \$300 budget by designing and selling school-branded clear fanny packs to the public.