

# Logan Crotchett

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## EDUCATION

**Bachelor of Science in Computer Science | Minor in Mathematics | 3.6 GPA** **Expected May 2026**  
Wichita State University, Wichita, KS

## WORK EXPERIENCE

**Software Engineer Intern** **May 2025 - August 2025**  
Flint Hills Resources; Koch Industries, Wichita, KS

- Built enterprise React applications with TypeScript, Material-UI, and Redux, implementing admin configuration systems and role-based access control with dynamic UI components
- Architected modular frontend components with React and TypeScript, implementing reusable configuration systems and custom hooks for state management across enterprise applications
- Developed Neo4j Cypher queries and RESTful APIs with advanced filtering, sorting, and pagination across complex data relationships using graph database patterns
- Collaborated in an Agile development team, participating in daily stand-ups, sprint planning, code reviews, and team discussions to ensure rapid iteration and work towards business goals

**Student Web Developer** **September 2024 - May 2025**  
National Institute of Aviation Research, Wichita, KS

- Designed and improved a full-stack internal web application utilizing ASP.NET Core MVC architecture, focusing on the optimization of business processes
- Installed and configured Entity Framework to implement CRUD functionality and interactions with the database

**Student Assistant for Quality Control Lab** **February 2023 - September 2024**  
National Institute of Aviation Research, Wichita, KS

- Built custom software in Visual Basic to increase the speed of creating new dimensioning templates by roughly 20%
- Interpreted engineering drawings and utilized Excel to document measurements and create forms based on ASTM criteria

**Qualification Tester** **October 2022 - February 2023**  
NetApp, Wichita, KS

- Ran tests on Linux-based NetApp software to test firmware for hard drive manufacturers
- Frequently communicated with full-time engineers to ensure smooth testing, and helped with any server-related issues

## PROJECTS

**Designed a Dimensioning Template Generator for NIAR** **September 2023**

- Developed a dimensioning template generator using Visual Basic to streamline the dimensioning process at NIAR
- Designed the generator to be scalable, allowing for future enhancements and adaptability to future project requirements

## ACTIVITIES

**Winner - Hack Cats 2025** **October 2025**

- Built a Next.js web app simulating realistic job interviews with real-time voice interaction, personalized question generation, and automated performance feedback
- Implemented Deepgram speech-to-text, ElevenLabs text-to-speech, and Google Gemini for natural conversation flow; utilized Firebase for authentication and session persistence

**Winner - NASA Space Apps Challenge 2025** **October 2025**

- Designed and shipped an interactive asteroid-impact simulator with 2D maps (react-leaflet/Turf.js) and a 3D globe using CesiumJS (camera controls, terrain, time-dynamic impact overlays)
- Built with Next.js, React, TypeScript, Node.js; implemented typed serverless routes to integrate NASA NEO data and impact simulations

## SKILLS

**Programming Languages:** Typescript, C#, C++, SQL, Cypher, Python, Visual Basic

**Web Development:** React, HTML, CSS, JavaScript, ASP.NET Core MVC, Node.js

**Tools:** Linux, Neo4j, Entity Framework, jQuery, Bootstrap, MUI, GitHub, Git