Austin Stierman

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EDUCATION

The University of Iowa, Iowa City, IA   May 2027
Bachelor of Science in Computer Science, Minor in Business Administration
- GPA: 4.12/4.00
- Relevant Coursework: Data Structures, Algorithms, Software Development, Operating Systems

WORK EXPERIENCE

Software Engineer Intern   May 2025 - Present
MidAmerican Energy Company – Des Moines, IA
- Used Azure Functions and Storage to trigger a .NET backend that transformed geospatial data into a SQL-compatible format for spatial analysis
- Built a React-based frontend with search functionality for querying and displaying GIS inspection and condition data on a map and table
- Collaborated with cross-functional teams to enhance performance and UX across the stack

Business Analyst Intern   May 2024 – May 2025
Iowa Department of Transportation – Ames, IA
- Collaborated with stakeholders from Finance, HR, and Warehouse Management to gather requirements and execute their IT needs
- Utilized Workday databases to collect and analyze large datasets, providing insights to improve business processes
- Automated the cleanup and organization of large sets of file data using PowerShell

PROJECTS

EV Charger Geospatial API (Python, FastAPI, PostgreSQL/PostGIS, Docker, Render)   September 2025
- Developed an algorithm for optimal EV route planning, factoring in vehicle range and charger locations to minimize stops while ensuring route feasibility
- Built a backend with FastAPI, PostgreSQL/PostGIS, and OSRM integration, enabling geospatial queries and efficient stop-selection logic, including edge cases like unreachable routes and direct reachability
- Engineered robust geospatial data handling, using PostGIS to compute charger accessibility along destination paths and optimize performance for complex routing queries

Task Manager Mobile (React Native, Node.js, MongoDB, Render)   August 2025
- Developed a cross-platform mobile application that simplifies task and project management
- Implemented task creation, updating, and deletion, with deadline reminders via push notifications to improve user productivity
- Integrated secure authentication with username/password, using encryption to protect sensitive data
- Built with a React Native frontend (Expo Go) and a Node.js + MongoDB backend, hosted on Render for seamless deployment, scalability, and reliable data management

VOLUNTEERING/LEADERSHIP EXPERIENCE

Event Staff/Volunteer   November 2020 - Present
Riproar Events – Des Moines, IA
- Communicated with a team of 20+ staff to direct volunteers, athletes, and bystanders to create the best possible experience for the participating athletes
- Directed traffic, performed lifeguard duties, and completed other tasks to ensure safety of all present

SKILLS

Languages: C#, Java, Python, C, C++, PowerShell
Frontend: React, JavaScript/TypeScript, HTML/CSS, Tailwind
Backend: .NET, SQL, Azure Functions, API Integration, Backend Architecture
Cloud/Tools: Azure Storage, Azure DevOps, Git, GitHub, Power BI, Excel

HONORS, AWARDS and ACTIVITIES

- Association of Computing Machinery Member   September 2024 - Present
- University of Iowa President's List   September 2023 - Present
- University of Iowa Honors   September 2023 - Present