**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