

Ethan Stierman

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EDUCATION

The University of Iowa | Iowa City, IA

B.S. in Computer Science | GPA: 4.12/4.00 | Honors

Expected May 2027

Minor: Business Administration

Relevant Courses: Software Development, Algorithms, Data Structures, Artificial Intelligence

TECHNICAL SKILLS

Programming Languages: Java, Python, Typescript, Javascript, C++, C, x86 Assembly, MATLAB

Technical / Computer Skills: AWS, React, Next.js, Git, Gitlab, Power BI, Microsoft Office

RELEVANT EXPERIENCE

Software Engineering Intern | Principal Financial | Des Moines, IA (Hybrid)

May 2025 - August 2025

- Developed a deconversion application using **AWS (Lambda, API Gateway, DynamoDB)**, **TypeScript**, **React**, **Next.js** and **Java**, supporting both internal employees and external customer offboarding from Principal's financial plans.
- Built an AI-powered financial advice web application in a 6-person intern team during Principal's CodeJam, leveraging **OpenAI API**, **React**, **TypeScript**, and **AWS** to deliver personalized financial recommendations based on user inputs and data analysis
- Collaborated cross-functionally with UI/UX design, business stakeholders, and backend teams to deliver scalable and secure features in an Agile environment.
- Wrote unit and integration tests to ensure code reliability and supported CI/CD workflows through GitLab pipelines.
- Completed courses in TypeScript, React, and AWS CDK

Business Systems Intern | Iowa DOT | Ames, IA (Hybrid)

May 2024 - May 2025, August 2025 - Present

- Applied programming logic to enhance and maintain the Workday environment for the Iowa Department of Transportation, ensuring efficient operations and improved user satisfaction
- Collaborated with stakeholders from Finance, HR, Warehouse and IT to gather requirements and execute their IT needs
- Organized and updated data for warehouse inventory and shipping routes using advanced spreadsheet functions and calculations, improving accuracy and efficiency in logistics operations.

PROJECTS

Personal Website | TypeScript, Next.js, React, Tailwind CSS

- Designed and developed a modern portfolio website using **React**, **Next.js**, and **TailwindCSS**. Features dark/light mode, smooth animations, responsive design, and a contact form integrated with EmailJS for direct communication

Financial Data Visualizer | Python, MongoDB, Streamlit

- Engineered a full-stack finance tracker that parses and categorizes transactions with a **MongoDB**-backed keyword engine, and delivers dynamic, interactive dashboards through **Streamlit** with real-time visual insights.

AI/ML Speech Recognition Pipeline | Python, NumPy, KaldiIO

- Building a speech-to-text system that transforms raw audio into model-ready features through context splicing, subsampling, and character-level tokenization, enabling training and evaluation of deep learning-based ASR models.

AWARDS AND HONORS

- **University of Iowa President's List (3x)** **September 2023 - June 2025**
- **University of Iowa Dean's List (4x)** **September 2023 - June 2025**
- **DMAcc President's List (1x)** **August 2022 - May 2023**