

Gavin D. Fisher

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Education

Iowa State University

Bachelor of Science, Computer Science, Minor in Data Science

Graduation: May 2025

GPA: 3.55

Skills

Languages: Java, Python, C/C++, Go, R, SQL, JavaScript, HTML, CSS, XML

Developer Tools/Libraries: Git, IntelliJ, Azure DevOps, Docker / Pandas, NumPy, Matplotlib, Seaborn, Keras, Tensorflow, Scikit-Learn, PyTorch, Spring Boot, Bootstrap, Java Data Tables, Struts, Ajax, jQuery

Work Experience

Iowa State University

February 2025 - Present

Computer Science Teaching Assistant

- Provided academic support for Computer Architecture students, explaining low-level computing concepts in C, LEGv8 assembly, and binary while grading assignments and leading office hours.

Curries - ASSA ABLOY

May 2024 - August 2024

Full Stack IT Developer

- Developed and enhanced Java web applications with JavaScript, SQL, Bootstrap, jQuery, and Struts, implementing new features making internal tools more accessible and efficient.
- Introduced and standardized Git workflows, reducing troubleshooting time, ensuring consistent code tracking, and improving deployment efficiency for the entire development team.
- Practiced Agile development methodologies with sprint planning, weekly standups, managing user stories, and resolving bugs, enhancing project transparency and tracking progress in Azure DevOps.

Data Science for the Public Good - Iowa State University

May 2023 - August 2023

Undergraduate Data Researcher

- Automated damage detection analysis from web-scraped images and datasets, identifying trends and sharing insights via a collaborative team blog utilizing R, HTML, and Git.
- Developed AI models in Python to predict visible house damages, streamlining assessments and reducing costs for local housing evaluations.
- Presented research findings to university faculty, discussing AI model performance, challenges, and potential improvements for future housing assessment projects.

Projects

HPC Health Monitoring - Lockheed Martin (Senior Project)

January 2025 - Present

- Developing a High-Performance Computing monitoring system with a Go backend and frontend, providing real-time insights into cluster, node, and CPU performance using Slurm and SQLite.

Cardinal Space Mining Club

January 2023 - February 2025

Treasurer & Member

- Developed a fully autonomous trenching system for a lunar robot in C++, using sensor monitoring to prevent binding, optimizing efficiency, and contributing to a first-place victory in 2023.
- Provided on-site programming support at the CAT and NASA Lunabotics Competition, troubleshooting and optimizing system performance, contributing to a first-place victory in 2024.
- Led financial operations as Treasurer, overseeing the club's budget, securing sponsorships, handling paperwork, and planning events and competition travel to ensure smooth operations.

Activities and Accolades

Craig Sailor Exceptional Leadership Award, Dean's List, Iowa State Varsity Drumline, Weightlifting Club