

William Stamper

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Fall Graduating Senior at The University of Iowa with a focus on Artificial Intelligence and Machine Learning. In 2024, worked as a research assistant at the University of Iowa to develop predictive models using OpenCV. Worked in 2023 as a frontend developer using React and Tailwind for SeatStock, a ticket marketplace startup in Iowa City. Interned summer 2022 at Quality Manufacturing Corporation as a full stack engineer.

SKILLS

- Python, Java, C++, JavaScript, React, HTML/CSS, Tailwind, MySQL, Next.js, Git

EDUCATION

The University of Iowa, Iowa City, IA

08/2021 - Expected 12/2024

BA in Computer Science, Minor in Mathematics

- Courses: Algorithms, Mathematics of ML, Software Development, Data Structures, Calculus I-III, Linear Algebra
- Event Planner for the Association for Computing Machinery (ACM), IowaHackathon 2023 Award Winner

WORK EXPERIENCE

The University Of Iowa (Python, OpenCV)

Iowa City

Research Assistant

01/2024 - Present

- Leveraged Python and OpenCV for precise analysis and quantification of cells in bone marrow scans
- Collaborated across disciplines to refine cell counting protocols, achieving 60% faster data collection

SeatStock (React, Tailwind)

Iowa City

Frontend Developer and Co-Founder

08/2023 - 12/2023

- Implemented component-based frontend structures and custom hooks, optimizing load times and improving performance
- Collaborated with backend developers and designers to deliver cohesive product features under tight deadlines

Quality Manufacturing Corporation (JavaScript, Html/Css, MySQL)

West Des Moines

Web Developer Intern

05/2022 - 07/2022

- Collaborated with an interdisciplinary team to deploy dynamic form applications using HTML/CSS and JavaScript, digitizing part requests and streamlining workflow processes

PROJECTS

Google Finance Clone (React, Tailwind)

07/2024 - Present

- Developed a fully functional clone of Google Finance, featuring real-time financial data visualization
- Integrated Yahoo's financial API to fetch and display up-to-date stock market information

Neural Network Chess (Python, Pytorch, Tkinter)

07/2024 - Present

- Engineered a chess algorithm using minimax with alpha-beta pruning, enhanced with a neural network for positions evaluation
- Developed a custom GUI with Tkinter, enhancing user interaction

Nasa APOD Desktop (Python, Tkinter)

07/2024

- Wrote python to pull NASA's latest Astronomy Photo of the Day using their public API
- Implemented a cron job to automate running the script and update background daily