

# William Stamper

## Computer Science Student – The University of Iowa

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Fall graduating senior with an interest in web development and machine learning. Currently working as a research assistant at the University of Iowa to develop image classification models. Worked at SeatStock in 2023 as a fullstack developer and interned summer 2022 at Quality Manufacturing Corporation as web developer.

## Education

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### BA in Computer Science, Minor in Mathematics

The University of Iowa – Iowa City, IA

August 2020 to December 2024

Event Planner for ACM (Association of Computing Machinery), Iowa Hackathon 2023 Award Winner

## Work Experience

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### Research Assistant

The University of Iowa – Iowa City, IA

January 2024 to Present

Developing advanced image classification tools using Python and OpenCV to accurately classify cells within bone marrow scans. Developed RESTful APIs to handle data requests and integrated the backend with a MySQL database.

### Full-Stack Developer

SeatStock – Iowa City, IA

August 2023 to December 2023

Built user-friendly frontend components in React using Tailwind. Worked on integration of the platform’s custom-built backend API to handle real-time ticket inventory management and secure payment processing.

### Web Developer Intern

Quality Manufacturing Corporation – West Des Moines, IA

May 2022 to July 2022

Developed and implemented various site components included design and part request forms using HTML/CSS, JavaScript, JSON, Ajax, and MySQL. Improved the database structure by optimizing queries and introduced Ajax to enable real-time data updates without page reloads.

## Skills and Technologies

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Python, OpenCV, PyTorch, Java, C++, JavaScript, React, Tailwind CSS, Next.js, MySQL, Git

## Projects

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### Google Finance Clone – React, Tailwind, MongoDB

Developed a Google Finance clone. Added user auth and integrated a financial API for stock data.

### Document Similarity Analysis with a Vector Space Model – Python

Implemented text normalization and frequency analysis for 892 presidential speeches then used cosine similarity analysis to predict the author of 4 mystery speeches.