

William Stamper

FullStack JavaScript Developer

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Experience

Research Assistant

January 2024-Present

The University of Iowa – Iowa City, IA

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

FullStack Developer

August 2023-December 2023

SeatStock – Iowa City, IA

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

Web Development Intern

May 2022-July 2022

Quality Manufacturing Corporation – West Des Moines, IA

Developed and implemented 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.

Education

BA in Computer Science, Minor in Mathematics

August 2021-December 2024

The University of Iowa – Iowa City, IA

Event Planner for ACM 2024 (Association of Computing Machinery), Iowa Hackathon 2023 Award Winner

Skills

Programming Languages – JavaScript/TypeScript, Python, C++, Java

Tools & Frameworks – React, Next.js, Express.js, Node.js, Tailwind CSS, MongoDB, MySQL, GitHub Actions

Projects

NextFileManager – React, TypeScript, Tailwind, Python, FastAPI, Redis, TailwindCSS

A robust file server supporting OIDC & LDAP for secure authentication. Designed and developed frontend in TypeScript, ensuring a user-friendly interface for efficient file management through both a web platform and headless CRUD API.

Mosaic – React, JavaScript, Next.js, Express.js, Tailwind, MongoDB, TailwindCSS

Social media web application built using a MERN stack designed to support real-time interactions and media sharing. Utilizes RESTful API built with Express.js and redux for state management.

Cradle Code – React, JavaScript, Firebase Authentication and Storage, TailwindCSS

Learn to code site built using react. User authentication implemented with Firebase to support Google and Github auth. User progress stored with Firebase Database. Wrote detailed tutorials for JavaScript, Python and HTML.