

Liam Stamper

Full-Stack Developer, Iowa City, IA

SKILLS

BACKEND DEVELOPMENT - Python, Java, Express.js, Node.js, Django, FastAPI

FRONTEND DEVELOPMENT - React, JavaScript, TypeScript, Redux, HTML, CSS, TailwindCSS, Bootstrap

MISCELLANEOUS – GitHub Actions, Next.js, MongoDB, MySQL, PostgreSQL, Docker

SOFT SKILLS – Communication, Team Collaboration, Attention to Detail, Time Management

EXPERIENCE

THE UNIVERSITY OF IOWA | Python, OpenCV, MySQL, FastAPI

Research Assistant | Jan 2024 - Present, Iowa City, IA

- Developed advanced image classification tools using Python and OpenCV to accurately classify cells within bone marrow scans
- Integrated backend services using MySQL and RESTful APIs for seamless data handling
- Collaborated with cross-functional teams to ensure data accuracy and improved system performance by 20%

SEATSTOCK | React, Next.js, Python, Django, PostgreSQL, TailwindCSS, Docker

Full-Stack Developer and Co-Founder | Aug 2023 - Dec 2023, Iowa City, IA

- Built a scalable, real-time student ticketing platform in React using Next.js with a PostgreSQL database
- Assisted in integration of the platform's backend Django APIs to handle inventory management and payment processing
- Implemented Docker containerization to streamline the development and deployment process, reducing setup time by 30%

QUALITY MANUFACTURING CORPORATION | JavaScript, HTML/CSS, AJAX, MySQL

Web Development Intern | May 2022- July 2022, West Des Moines, IA

- Developed and deployed dynamic internal form components, improving data input efficiency, and reducing part request latency by 25%
- Developed strong skills in debugging, troubleshooting, and efficiently resolving issues to ensure smooth project progress

PERSONAL PROJECTS

NEXTFILEMANAGER | React, TypeScript, Python, FastAPI, TailwindCSS

File Server Application Supporting OIDC & LDAP

- Developed a robust file management application in TypeScript, using FastAPI for high-performance backend endpoints
- Implemented authentication protocols using OIDC and LDAP, enhancing user privacy and secure access management

MOSAIC | React, JavaScript, Next.js, Express.js, MongoDB, TailwindCSS

MERN Stack Social Media Web Application

- Developed a responsive frontend in React utilizing Redux for complex, real-time state management
- Designed and implemented RESTful APIs with Express.js to handle user authentication and media uploads, ensuring secure and efficient server-client communication

CRADLE CODE | React, JavaScript, Firebase Authentication and Storage, TailwindCSS

Learn to Code Site with LeetCode Style Practice Problems

- Implemented user authentication with Firebase and Google/Github OAuth
- Used Redux for state management and efficiently stored user tutorial progress with a Firebase Database

CONTACT INFORMATION

Email - liam.stamper@gmail.com

Portfolio - liamstamper-portfolio.vercel.app

GitHub - github.com/liamstamper

LinkedIn - linkedin.com/in/liamstamper

EDUCATION

THE UNIVERSITY OF IOWA

B.A. in Computer Science

Aug 2021- Dec 2024, Iowa City, IA

Minor in Mathematics, Honors Program

ACTIVITIES & AWARDS

Event Chair for ACM (2024)

Organized tech talks, coding challenges, and networking events for over 50 members, fostering community engagement.

Iowa Hackathon Award Winner (2023)

COURSEWORK

Data Structures and Algorithms

Software Development

Computer Organization

Mathematics of Machine Learning

Intro to Networks

Calculus I-III

Linear Algebra

Numerical Methods

Discrete Structures

OTHER INTERESTS

Open-Source Contribution

Image Processing (OpenCV, Scikit-Image)

Network Protocols

Machine Learning (Pytorch)

Hardware Projects (Raspberry Pi)

Data Visualization