Liam Stamper

Full-Stack Developer, Iowa City, IA

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EDUCATION

University of Iowa, Iowa City, IA   Aug 2021 – Dec 2024

Bachelor's in Computer Science - Minor in Mathematics. Honors Program, Event Planner – Association for Computing Machinery.

EXPERIENCE

Centro Inc, North Liberty, IA   Dec 2024 – Present

Full-Stack Developer

- Developed full-stack features using TypeScript, Next.js, and NestJS, TypeOrm, and Microsoft SQL, modernizing company internal tooling and inventory systems.
- Redesigned inventory logging logic, reducing inventory data access time by 60% and enhancing change data capture efficiency.
- Implemented an action context meta system, eliminating 2,000+ lines of redundant code and establishing standardized development practices.
- Automated system health checks using TeamCity and Selenium, proactively ensuring application reliability and frontend stability.
- Optimized page rendering and load times by leveraging Next.js parallel routes, enabling concurrent data fetching for faster UI performance.

The University of Iowa, Iowa City, IA   Jan 2024 – Dec 2024

AI Research Assistant

- Developed advanced image classification tools using Python and OpenCV, automating cell counting in bone marrow scans with high accuracy, improving system accuracy as a team by 20% over the year.
- Built and deployed interactive data visualization tools using TypeScript, FastApi with PostgreSQL, providing researchers with actionable insights.
- Optimized large-scale data processing pipelines using PySpark parallelization, cutting computation times and accelerating research iterations.

SeatStock, Iowa City, IA   Aug 2023 – Jan 2024

Lead Frontend Developer and Co-Founder

- Led an agile frontend team to develop a TypeScript, Next.js and React-based marketplace, launching from zero to production in 4 months.
- Designed and developed scalable UI components to handle complex browsing, sales and purchasing workflows, ensuring a smoother user experience.
- Spearheaded the integration of third-party payment processing and authentication systems, creating secure and seamless transactions for users.
- Implemented real-time data updates using FastApi WebSockets, enhancing live ticket availability and reducing outdated listings by 40%.

SKILLS

Frontend Development – TypeScript/JavaScript, React.js, Next.js, HTML & CSS, Redux, TanStack, TailwindCSS, ShadCN, MaterialUi, Framer-Motion, Figma

Backend Development - NestJS, Express.js, Node.js, Python, Django, FastApi, GraphQL, Auth0, Firebase Auth

Developer Tools – Git, CI/CD, Docker, Amazon Web Services, Azure, TeamCity, Nginx, Vitest, Jest, Selenium, Playwright, Turbopack, Kubb, PySpark

Database Tools – MySQL, Microsoft SQL, PostgreSQL, MongoDB, Redis, SQLAlchemy, TypeOrm, Prisma, Drizzle