

Patrick Foster

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EDUCATION

University of Iowa

B.A. Computer Science, B.B.A. Business Analytics and Information Systems

Expected Graduation: May 2024

GPA: 3.8

EXPERIENCE

Netflix

Incoming Software Engineer

June 2024

Los Gatos, CA

GoDaddy

Software Engineer Intern

May 2023 - August 2023

Kirkland, WA

- \$1.8 Million projected annual revenue increase by rigorously A/B testing various checkout features in React
- Enhanced a priority zero API in JavaScript, handling over 30,000 purchases a day
- Streamlined the customer purchasing experience by making a resilient error handling system in Node.js and Fastify
- Enabled non-technical PMs to experiment by implementing changes to test improvements with Redux
- Persuaded over 15 Senior Developers to begin converting a code base from JavaScript to Typescript

JPMorgan Chase & Co.

Software Engineer Intern

June 2022 – August 2022

Chicago, IL

- Ensured investment bankers maintained regulatory compliance by modernizing two outdated websites to React
- Implemented an in-browser code editor, grid layouts, and file uploading, with 90% Jest test coverage
- Presented to the firm's senior leadership and stakeholders on the importance of my work modernizing their site
- Used Agile Methods in a fast-paced team to iterate quickly in unfamiliar frameworks and code-bases

Techstars Startup Accelerator

Venture Analyst (Part-Time)

August 2020 – January 2022

Des Moines, IA

- Aided 13 startups in raising funding by building them each a financial model in excel
- Supported these startups' decision-making by forecasting their financial statements and KPIs over five years

PROJECTS

Open-Source Contributor, LangChain | *Open Source, Typescript, Generative AI*

- Contributed to framework for LLM applications by integrating them with two additional AI models
- Expanded the model's functionality by setting hyperparameters, caching results, and adding stop sequences

Course Scheduling Assistant | *RAG, Pinecone, Generative AI, React, Node.js*

- RAG based Chatbot builder, being conversational with over 40 hours of lecture recordings
- Built a data pipeline that used Large Language Models to encoded hundreds of videos, PowerPoint's, and PDFs

Google Chrome Extension Writing Assistant | *React, Typescript, Node.js, MongoDB, Webpack, Generative AI*

- Developed feature-rich web app & Chrome Extension allowing AI-generated text rewrites for users' content
- Implemented advanced DOM manipulation algorithms to modify text stored in any input on any web page

TECHNICAL SKILLS

Languages: Typescript, Python, Java, JavaScript, HTML, CSS, SQL, R

Frameworks & Libraries: React, Next.js, Node.js, Express, Flask, Redux, Cypress, Pandas, Numpy, Scikit-learn

Other: MongoDB, GitHub, Git, Jest, Web Sockets, OAuth, Manifest V3