Ethan Hosier

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EDUCATION

Imperial College London   London, UK
Bachelor of Engineering in Computing   *Oct. 2022 – June 2025*
- Achieved First Class Honours in First Year

EXPERIENCE

Full-Stack Software Developer, Founder | *TypeScript, Node.js, React, Next.js*   May 2023 – July 2023
321 Restaurants   *London, UK*
- Founded a software startup dedicated to empowering small, independent restaurants through affordable solutions.
- Conducted market research to understand industry needs and, as the sole full-stack software developer, developed a comprehensive content management system, dashboard and individualised websites.
- Gained valuable experience in product development, market analysis, and demonstrated proficiency in designing and implementing full-stack solutions.

HACKATHONS

IC Hack | *Python, TypeScript, React, Next.js, Flask, LangChain, Docker, Hugging Face, OpenAI*   February 2024
AI-Powered Trading Statements Analyser   *London, UK*
- As part of a team of five computing students, developed a tool that performed web scraping and AI-powered analysis of trading statements from the London Stock Exchange website.
- Personally trained a custom BERT language model to perform sentiment analysis on the positivity of each sentence within the statement. Also designed and built the entire, sleek frontend of the app, as well as some of the backend.
- Successfully integrated LangChain to navigate the statements' biased, excessively optimistic corporate language, providing fact checking and additional context to the user through web searches.

AI Ventures Hackathon | *TypeScript, React, Next.js, OpenAI*   January 2024
GILO Consulting - The AI-Powered Future of Consulting for Small Businesses & NGOs   *London, UK*
- Collaborated with two business students to create an AI-powered consulting platform, which we pitched to VCs.
- As the sole technical member of our team, developed gainshare contract generation, consultant profiles, a dashboard, and a chatbot custom-trained to match our clients directly to the most relevant consultants.
- Gained valuable experience working in a team with diverse skillsets and producing software quickly.

SIDE PROJECTS

Large Language Model (GPT) | *Python, PyTorch, Jupyter Notebook*   December 2023
- As a side project, used deep learning to develop a large language model from scratch, capable of generating human-like text using next token prediction.
- Extensively trained the model on the OpenWebText dataset with PyTorch and CUDA-enabled GPU acceleration.
- Built a python chatbot CLI to allow users to interact with the model through prompts.

Pop Up! | *JavaScript, React Native, Swift, Firebase*   February 2023 – March 2023
- Developed an MVP for my idea of a proximity-based social media mobile app.
- Implemented a unique feature where profiles of nearby app users dynamically pop up on users' phones as they walk past each other, facilitating real-time interactions.
- Designed and developed the app's user interface, animations and interactive features, ensuring an intuitive and seamless user experienc.
- Successfully developed a custom native module using Swift to interface with the Google Nearby Messages API.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, Golang, C, Scala, Haskell, SQL, HTML/CSS
Frameworks: React.js, Next.js, React Native, Node.js, Express.js, Tailwindcss
Libraries: PyTorch, Pandas, NumPy, Matplotlib, Scikit-learn
Developer Tools: Docker, MongoDB, Git, Jupyter Notebook, Firebase, AWS, Google Cloud Platform, Figma, VS Code, Visual Studio, PyCharm, IntelliJ, PgAdmin