Ethan Hosier

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EDUCATION

Imperial College London   London, UK
MEng Computing   *Oct. 2022 – June 2026*
- Achieved First Class Honours in First & Second Year

EXPERIENCE

Revolut | *Java, Typescript, React.js*   July 2024 – September 2024
Software Engineer, Intern   *London, UK*
- Designed and implemented the backend of an Authorised Data Source that consolidates product and pricing rule configurations into a single interface, eliminating the need for manual database queries—used in production daily by the CEO and leadership team
- Leveraged concurrency techniques and caching to reduce query latency by 99%, significantly improving system performance and efficiency
- Integrated with multiple internal services, including the Terms Service to assign legal documents to tax configurations, and the Revolut People Platform to incorporate employee details into the admin app, ensuring seamless interaction across different systems

Mia Marketing | *Go, Python, Typescript, React.js, AWS, Microsoft Azure, Docker, Figma*   July 2024 – Present
Co-Founder, CTO   *London, UK*
- Led the development of an MVP for a fully autonomous AI-driven digital marketing platform, attracting interest from over 40 different companies, including those with annual revenues exceeding £1 million
- Built a scalable, microservices-based infrastructure on AWS and Azure of proxies, web crawlers and scrapers
- Developed automated workflows for data-driven social media content creation, posting, and lead generation through personalized email outreach campaigns
- Awarded £2,500 in prize money from Imperial College London's Entrepreneurship Journey, alongside £3,500 in Azure credits from the Microsoft Startup Hub

Resto Restaurants | *Typescript, React.js, Next.js, Firebase*   May 2023 – July 2023
Full-Stack Software Developer, Founder   *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

PROJECTS

WACC Compiler | *Scala, Typescript, Next.js*   January 2024 – March 2024
- Developed a compiler for the WACC programming language, handling lexical analysis, semantic analysis, code generation, and optimization. Translates WACC source code into x86-64 machine code
- Built a web-based IDE using the Monaco editor and Next.js that allows users to write, compile, and execute WACC code on a web server, with full support for syntax and error highlighting

Groupify | *Typescript, React Native, Supabase*   May 2024 – June 2024
- Designed and built a mobile app for university students to find groups for projects, inspired by Tinder
- Implemented a custom matching algorithm, project creation, recommendation features and integrated chat rooms
- Collaborated directly with stakeholders to define and refine requirements, ensuring alignment with user needs

TECHNICAL SKILLS

Languages: Java, Go, TypeScript, Python, JavaScript, 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, AWS, MongoDB, Microsoft Azure, Git, Jupyter Notebook, Firebase, Google Cloud Platform, Figma, VS Code, Visual Studio, PyCharm, IntelliJ, PgAdmin