

ELLIOT CROSS

Full-Stack Engineer

PROFILE

A driven and curious full-stack engineer with a keen eye for detail and 5+ years' experience developing thoughtful solutions to challenging problems. Highly proficient at working collaboratively across all stages of the development cycle. Adept at writing robust, well-tested code and rapidly assimilating new concepts. Graduated with a First Class MSci and finished 'La Piscine' coding bootcamp ranking 4th out of 600 candidates. Seeking a purposeful role with the opportunity to build solutions that provide a meaningful impact.



+447595416906



elliottcross27@gmail.com



London



github.com/ewcross



linkedin.com/in/elliott-cross-a2b390174

EDUCATION

Software Development

École 42, Paris

2019 - 2020

- Ranked 4th out of 600 candidates
- Collaborative, project-based work
- C, C++, ML, Python, Docker

Master of Chemistry

University of Bristol

2014 - 2018

- First Class Honours
- Two School of Chemistry Academic Commendations
- Erasmus year at University of Salamanca, Spain
- Master's dissertation in computational chemistry

EXPERIENCE

Full-Stack Engineer | Heuris Energy Ltd.

June 2024 - present

Typescript, React, Next.js, Tailwind CSS, Drizzle ORM, PostgreSQL, Supabase, Vercel, Notion

- Led the development of a Next.js web app for techno-economic analyses and project planning tools, enabling renewable energy developers to streamline decision-making and project management.
- Collaborated directly with CPO to turn requirements and designs into production-ready features on tight timelines.
- Developed maintainable and well-tested back-end modules that automated business case calculations based on complex financial models.
- Used a monorepo architecture with Turborepo to unify front-end and back-end services, enabling effective code sharing and streamlined local development.
- Maintained strong product focus to deliver intuitive and expressive user experiences, enabling customers to gain actionable insights effectively.
- Leveraged Supabase for Postgres database management and authentication, with Vercel for hosting.
- Took ownership of high-level project briefs, defining my own objectives and effectively managing work streams to deliver consistent value in a high-change environment.

Full-Stack Engineer | Quantexa Ltd.

Jan 2022 - Jan 2024

Typescript, Angular, Sass, RxJS, Jasmine, functional Scala, Scala Cats, ScalaTest, Spring, Elasticsearch, GRPC, Jira

- Played integral role in total reimplementing of platform's Search feature, which:
 - Enabled searching over single, multiple and combined fields within complex data entities in elastic indices.
 - Utilised compound elastic queries for combining search modes and introduced various custom match operators.
 - Enhanced support for built-in elastic operators in free-text search mode.
- Collaborated closely with designers and senior stakeholders to create a sleek and simple UI.
- Led development of 'search-builder' UI, handling complex user interactions and ensuring full accessibility support.
- Increased search feature usage significantly, evidenced by user analytics, with customer feedback indicating substantial improvements in expressiveness and simplicity.

LANGUAGES

- Native English
- Fluent Spanish
- Conversational French and Italian

VOLUNTEERING

- Migrant aid volunteer
- NHS volunteer vaccinator

SKILLS & INTERESTS

- Surfing
- Rock climbing
- Tennis
- Languages
- Guitar
- Travelling

- Enhanced code maintainability and reusability by creating services for handling complex business logic. Used the Observer Pattern and Dependency Injection for communication with UI components.
- Consistently wrote tests for completed tickets, focusing on code modularity and frequently using TDD to improve testability.
- Quickly attained proficiency in functional Scala, Typescript and Angular, despite having no prior experience with these technologies.
- Managed project workstreams within Scrum framework using Jira, creating well-scoped and clearly defined tickets.
- Delivered biweekly team demo sessions to senior stakeholders, tailoring technical content where necessary.

Back-End Engineer | Agnostik

Sep 2020 - Dec 2021

Node.js, Docker, GKE, PostgreSQL, MongoDB

- Developed web crawling app with Puppeteer in Node.js to gather IAB vendor data, growing vendor support from 5 to 20+.
- Overcame challenges in vendor identification across diverse web pages, developing a robust implementation and extensive selector library to increase success rate from 60% to 90%.
- Leveraged GKE for app deployment.
- (Instigated and led migration from PostgreSQL to MongoDB recognising that, amidst frequent data model changes due to rapidly evolving requirements, a NoSQL database offered much needed flexibility and promoted agile development.)
- Collaborated closely with cross-functional team to deliver consistent value in a high-change environment.

Freelance Engineer | Treadlighter Ltd.

Mar - Aug 2020

Python

- Developed CLI app to automate extraction and consolidation of customer data from multiple sources into single document, reducing processing time from hours to seconds.