

# ELLIOT CROSS

## Full-Stack Engineer

### PROFILE

A driven and curious full-stack engineer with a keen eye for detail and 4+ 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 in the climate sector with the opportunity to contribute to building solutions that provide a meaningful impact.



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### 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

### LANGUAGES

- Native English
- Fluent Spanish
- Conversational French and Italian

### EXPERIENCE

#### Full-Stack Engineer | Quantexa Ltd.

Jan 2022 - Jan 2024

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

- Played integral role in total reimplementing of platform's Search feature:
  - Built support to search 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.
  - Eliminated unexpected search behaviours, ensuring more accurate results.
- 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.
- 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%.

## VOLUNTEERING

- Migrant aid volunteer
- NHS volunteer vaccinator

## SKILLS & INTERESTS

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

- 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.
- Leveraged GKE for app deployment, enabling high-capacity data harvesting on a daily basis.
- 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.