

# David Culemann

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## EDUCATION

### University of Cambridge

Cambridge, UK

*MPhil in Energy Technologies - High Performance*

*Oct. 2020 – Sep. 2021*

- Co-founded a social enterprise developing sustainable solar cooking solutions for rural communities, securing £2,000 seed funding through the [2021 Parmee Prize for Entrepreneurship](#).

### University of Southampton

Southampton, UK

*MEng Mechanical Engineering - 1st Class Hons, Dean's List*

*Sep. 2015 – Jul. 2020*

## SKILLS

**Front End:** TypeScript, JavaScript, React, Remix, Next, CSS, SASS, Tailwind, TanStack Query, Cypress, Figma

**Back End:** Firebase, Supabase, MongoDB, Node, Express, PostgreSQL, GitLab CI, Stripe, AI SDK

## EXPERIENCE

### Darktrace

Cambridge, UK

*Senior Software Engineer*

*September 2024 - Present*

- Leading UI developer recruitment and modernising the process, managing onboarding and training of new developers through pair programming, code reviews and maintaining high-quality documentation.
- Delivering and maintaining key projects, including a dynamic report generation dashboard and a real-time status monitoring web page, improving customer visibility on service downtimes and streamlining reporting workflows.
- Refactoring the monolithic codebase into reusable UI views by creating NPM packages and micro frontends.

*Software Engineer*

*June 2022 - September 2024*

- Leading UI development for [Darktrace /CLOUD](#), the company's flagship cloud security product, while coordinating a cross-functional team of developers and designers, and collaborating with backend teams on API architecture.
- Developed interactive diagrams with [Cytoscape.js](#) to map cloud architectures, highlight high-risk attack paths, and guide security workflows, informed by feedback from stakeholders such as internal security and early adopters.
- Maintained an internal UI component library used across 20+ projects (1000+ imports) to promote design consistency and accelerate development by minimizing code duplication.
- Championed developer experience improvements including **GitLab CI** build automation, centralised **Prettier** rules, and **TanStack Query** for async state, driving adoption through presentations and documentation.

### Carno

Cambridge, UK

*Founding Engineer*

*January 2022 – April 2022*

- Founding full-stack engineer at a cleantech [startup](#) aiming to accelerate domestic decarbonisation by simplifying and optimising heat pump installation and sourcing with a mobile surveying application.
- Architected and developed the MVP mobile app using **React Native**, **TypeScript**, **Node.js**, and **Firebase**.
- Improved code base quality by introducing CI/CD pipelines covering linting, code formatting, automated testing using **Jest** and **Cypress**, and maintaining in-line and wiki documentation.

### Academy

London, UK

*Trainee Software Engineer*

*August 2021 – January 2022*

- Founding scholar of a selective holistic training [programme](#) covering full-stack technologies and leadership.

### Rolls-Royce

Chichester, UK

*Computer-Aided Quality Systems Intern*

*September 2017 – September 2018*

- Digitalised the tool tracking process (**VBA**), resulting in annual savings of ~£10,000 and mitigating quality risks.

## PROJECTS

**Corpify** | <https://remix-shadcn-boilerplate.vercel.app/>

*Remix, Supabase, Shadcn, Tailwind*

- An open-source boilerplate for quickly launching SaaS applications with **Remix**, **Supabase** and **Shadcn**.

**EasyCV** | <https://easycv.vercel.app/>

*Remix, Stripe, AI SDK, React Hook Form*

- An AI-powered career platform: resume/cover letter generation, application tracking and interview preparation.

**GeoGenius** | <https://geogenius.vercel.app/>

*React, TypeScript, Figma, Firebase, Express*

- A quiz app inspired by my love of geography, designed in **Figma** and implemented an auth flow with **Firebase**.