

David Culemann

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EDUCATION

University of Cambridge <i>MPhil in Energy Technologies - High Performance</i>	Cambridge, UK Oct. 2020 – Sep. 2021
<ul style="list-style-type: none">Co-founder of a social enterprise, winning £2,000 funding from the 2021 Parmee Prize for Entrepreneurship.	
University of Southampton <i>MEng Mechanical Engineering with Sustainable Energy Systems - 1st Class Honours</i>	Southampton, UK Sep. 2015 – Jul. 2020

TECHNICAL KNOWLEDGE

Frontend: TypeScript, JavaScript, React, Remix, Next, CSS, Tailwind, TanStack Query, Cypress, Figma, Cytoscape.js
Backend: Firebase, Supabase, Node, Express, PostgreSQL, GitLab CI

INDUSTRIAL EXPERIENCE

Darktrace <i>Senior Software Engineer</i>	Cambridge, UK September 2024 - Present
<ul style="list-style-type: none">Interviewed, onboarded, and mentored 6 developers, fostering growth through pair programming, code reviews, and domain ownership; trusted to support UI and fullstack recruitment across R&D teams.Leading efforts to break up the monolithic codebase into reusable UI views such as a reporting dashboard and advanced query page, using micro frontends and NPM packages, saving months of dev time.	
<i>Software Engineer</i>	June 2022 - September 2024
<ul style="list-style-type: none">Lead UI developer for Darktrace / CLOUD, the company's new flagship cloud security product, coordinating a small team of two developers and a designer and shaping the API with the backend team.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.Maintaining an internal UI component library imported 600+ times across more than 10 products to promote brand design consistency and accelerating development by minimizing code duplication.Championed various developer experience improvements, including automating build deployment to internal test environments through GitLab CI, centralised Prettier rules, and TanStack Query for async state management, gaining buy-in from the team by delivering an ongoing series of talks and documenting the transition plan.	
Carno <i>Founding Engineer</i>	Cambridge, UK January 2022 – April 2022
<ul style="list-style-type: none">Founding full-stack engineer at a startup aiming to accelerate domestic decarbonisation by simplifying and optimising heat pump installation and sourcing with a mobile surveying application.Built the MVP app using a modern stack consisting of a React Native and TypeScript frontend, a Node.js + Express back-end, and Firebase for the database, analytics, and authentication.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 <i>Trainee Software Engineer</i>	London, UK August 2021 – January 2022
<ul style="list-style-type: none">Founding scholar of a selective holistic training programme covering full-stack technologies and leadership.	
Rolls-Royce Motor Cars <i>Computer-Aided Quality Systems Intern</i>	Chichester, UK September 2017 – September 2018
<ul style="list-style-type: none">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/	<i>Remix, Supabase, Shadcn, Tailwind</i>
<ul style="list-style-type: none">An open-source boilerplate for quickly launching SaaS applications with Remix, Supabase and Shadcn.	
LovebotAI https://lovebot-ai.vercel.app/	<i>React, MongoDB, Stripe, OpenAI</i>
<ul style="list-style-type: none">A mobile-first web-app for generating dating app profiles with AI, featuring a token monetization system.	
GeoGenius https://geogenius.vercel.app/	<i>React, TypeScript, Figma, Firebase, Express</i>
<ul style="list-style-type: none">A quiz app inspired by my love of geography, designed in Figma and implemented an auth flow with Firebase.	