Charles Lynch

Senior Software Engineer, Healthtech/Medtech

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Profile

Senior software engineer in the medtech/healthtech space, focused on SaMD products. Experienced across product engineering, NHS integrations (EPR systems, FHIR, NHS login and CIS2) and delivery under an ISO 13485 quality system, including coordinating go-lives with NHS trusts and private providers.

Strong front-end skills, with deep CSS knowledge, from patient and clinician portals to component libraries. Good at spotting pitfalls in designs and specifications early, and planning for future bottlenecks.

10 years building web software · 4 years in health software · MSc Computer Science, Distinction · ISO 13485 Lead Auditor training, 2026

Experience

Senior Software Engineer, Psyomics

Aug 2022 – present

Cambridge · Mental health triage

- Co-designed the company's in-house integration engine, which converts supplier EPR data into FHIR, retries failed messages and keeps an audit trail. Built its Rio and IAPTUS adaptors as sole developer; now live with two NHS trusts, including North London NHS Foundation Trust.
- Designed the product's FHIR APIs and built its NHS identity and messaging integrations: NHS login and CIS2 (OIDC), SAML single sign-on for trust systems, and MESH.
- Technical coordinator for several go-lives with NHS trusts and private providers, including accelerating a go-live with Midlands Partnership University NHS Foundation Trust ahead of schedule.
- Line manage one software engineer, including regular one-to-ones and their development plan, and take part in hiring decisions.
- Carried out technical due diligence on a potential SaMD acquisition jointly with the Head of Engineering, including calls with the target's engineering team.
- Designed and built the main API as the company moved from a pre-revenue proof of concept to a revenue-generating business. It serves organisations that integrate in-house rather than through the engine.
- Key engineer on the rewrite of the core product from MVP to a maintainable platform developed under the company's ISO 13485 quality management system.
- Built the patient and clinician portals, and set up the Storybook component libraries. Advocated for accessibility and responsive-design improvements across the product.
- Compiled and validated clinical data for evaluation reports submitted to the MHRA.
- Own and maintain the diagnostic algorithms for 15 mental health conditions, based on DSM-5, with test cases built alongside clinical experts.
- Manage the platform's AWS infrastructure as code with Terraform, keeping environments repeatable and changes traceable. Led infrastructure upgrades and the PostgreSQL schema design.

EARLIER ROLES

Full-Stack Engineer, Morta

Apr – Nov 2020

First employee at a start-up building software for large civil engineering projects and their contractors. Built Airtable-style spreadsheet tools for the construction industry. React, TypeScript and Python (Flask).

Full-Stack Engineer, Green Custard

Nov 2018 – Nov 2019

Consultancy building bespoke MVP web apps for clients including HSBC, JLL and Verizon, and a progressive web app for Joint Analytics. TypeScript, React and Vue on AWS (Lambda, S3, Cognito).

Software Engineer, The Lettings Hub

Nov 2016 – Apr 2018

Landlord property insurance platform, integrated with the on-site call centre. Built front ends in vanilla JavaScript and jQuery on a LAMP stack.

"Probably the best employee I've ever had." Paul Swift, Engineering Lead (LinkedIn recommendation)

Freelance Software Engineer

2019 – 2022

Projects between roles, including a platform for massage therapists, an art website and an e-commerce store.

OWN PRODUCT

Aglio

2026

An app that generates recipes with AI to suit a family's preferences, then orders the ingredients from the supermarket. Built for Android and iOS using Kotlin, and currently in testing and app-store review.

ALONGSIDE

District Councillor, West Suffolk Council

May 2023 – Apr 2027

Part-time, standing down in April 2027. Member of three committees:

- **Performance and Audit Scrutiny Committee**, reviewing the council's financial and non-financial performance
- **Licensing and Regulatory Committee**, covering licensing policy and licence decisions
- **Development Control Committee**, deciding significant planning applications

Skills

LANGUAGES	TypeScript, JavaScript, Python, SQL
FRONT END	HTML, React, Storybook, Accessibility, Responsive design
STYLING	CSS, Sass/SCSS, CSS modules, Tailwind, styled-components, Design tokens, Animations
BACK END	Node.js, GraphQL, REST APIs, PostgreSQL
TESTING	Jest, Vitest, Playwright
CLOUD AND DELIVERY	AWS, Terraform, Docker, CI/CD
HEALTH AND REGULATORY	FHIR, NHS login, CIS2, MESH, OIDC, SAML, ISO 13485
WAYS OF WORKING	AI-assisted development

Education and certificates

MSc Computer Science, Keele University

2023

Distinction, completed alongside full-time work.

A levels, Bedford Sixth Form

2014

A*A*A/A in Maths, Biology, Chemistry and Physics.

CERTIFICATES

MD-QMS ISO 13485 Lead Auditor, Comply Guru

2026

HashiCorp Certified: Terraform Associate

2026

AWS Certified Solutions Architect – Associate

2019 – 2022