

# Louis Braidwood

Full Stack Engineer

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## PROFESSIONAL EXPERIENCE

### Voror Health Technologies Software Developer

Remote

May 2023 – Present

- **High-Impact UX Engineering:** Lead developer for the *Record Viewer* tool, optimizing the "Cost of a Click" for clinicians. By reducing interaction steps for viewing patient records, the system is projected to save the healthcare sector **£10 million annually** in GP administrative time.
- **Legacy System Modernization:** Orchestrated the complete re-architecture of the *Data Sharing Manager* from a legacy Angular 8 codebase to a modern **Vue 3 & TypeScript** ecosystem.
  - Refactored **50+ complex components** into a modular, maintainable structure.
  - Introduced a robust E2E testing suite using **Cypress** and **Cucumber**, previously non-existent, now integrated into the CI/CD pipeline.
- **Data Pipeline Engineering:** Maintain high-throughput ingestion pipelines using **Java** and **RabbitMQ** handling **38 million patient records** across 850 GP practices. Transform unique clinical formats (EMIS, TPP, HL7) into unified JSON/SQL structures.
- **Security & Compliance:** Designed a custom **Auth0/JWT** generator for NHS Generic Subscription requirements and implemented system-wide **HSTS filters** to enforce HTTPS, ensuring strict adherence to DPIA standards for patient data.
- **Technical Leadership:** Regularly lead internal and external demos with NHS technical teams, bridging the gap between clinical requirements and engineering solutions.

## KEY TECHNICAL PROJECTS

### Commercial Web Development

Vue 3, Primevue 4

- Delivered a bespoke booking platform for a client using **Vue 3** and **Docker**. Integrating **Google Places API** and optimized SEO, resulting in a **200% year-on-year increase** in customer inquiries.

### Next.js Serverless Application (Portfolio)

React, TypeScript, Cloudflare

- Architected a full-stack Next.js application deployed to the **Cloudflare Edge runtime**, achieving a 100/100 Lighthouse performance score.
- Engineered a **serverless proxy layer** to integrate third-party data (GitHub, Last.fm), implementing custom **CDN-Cache-Control** headers and SWR strategies to mitigate API rate limits.
- Enforced **strict TypeScript** compliance across the stack, with shared interfaces for type-safe API communication.

### Mobile Graphics Simulation ("Squishy")

Unity, C#, HLSL

- **Mobile Architecture:** Designed a touch-first input system and managed memory budgets for mobile deployment.

## TECHNICAL SKILLS

**Frontend Architecture:** React, Vue.js (Vue 3 Composition & Options APIs), TypeScript, Tailwind CSS, Cypress.

**Backend Engineering:** Java (Spring Boot), Node.js, C#, RabbitMQ, Maven/Gradle.

**Data & DevOps:** MySQL, PostgreSQL, Docker, AWS, Cloudflare Pages, Git/GitHub Actions.

**Legacy:** Angular 2+, PHP.

## EDUCATION

### Heriot-Watt University BSc. (Honours) Computer Science

Edinburgh  
2019 – 2023