Christopher Yeoward

Full-stack engineer

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Broadly skilled lead software engineer with over 8 years of experience, passionate about user centred design, music technology and mental wellbeing.

SKILLED IN

Javascript/Typescript
React
React Native
Node.JS
ExpressJS
NextJS
Sveltekit

HTML/CSS
TailwindCSS
Sass

Java Springboot
Kotlin
Clojure

PostgreSQL
Prisma
Firebase

AWS
GCP
Openshift
Terraform

Web Audio
MaxMSP/PureData
DSP
JUCE
C/C++

Github Actions
Drone CI
Jenkins CI
Concourse CI

Figma
Sketch

References available on request

WORK

Freelance / Senior Full-Stack Developer
Sept 2023 - Present

Phare Health — June 2024 - Dec 2024
React, Node.js, Express.js, Prisma, PostgreSQL, Figma, UX/UI Design

Building the MVP of an LLM backed automated medical coding tool, focussing on quick iterations and a fast feedback cycle

Implemented a design system, rebuilding the UI to align with the brand and improve ease-of-use

Atomic Innovation / LogicBlocks — Feb 2024 - May 2024
React Native, Clojure, Typescript, Event Sourcing, PostgreSQL, AWS

Building the MVP of a low-code PaaS product, designing for flexibility and scalability

Wavepaths — Sept 2023 - Jan 2024
Technical advice and strategy

Wavepaths / Lead Engineer
Sept 2020 - Sept 2023

Typescript, React, Node.js, Express.js, PM2, PostgreSQL, GCP, Google Cloud Pub/Sub, Websockets, Web Audio

Lead and expanded the engineering team developing a real-time, generative music platform

Grew the customer base from 0 to 300 subscribers

Adopted core CTO responsibilities after their departure in 2021, including reporting, cost management and guidance on strategy and architecture

Implemented modern development and DevOps practices, increasing release frequency from fortnightly to multiple times a week.

Managed a team of 7, including in-house developers and contractors

Collaborated with the product lead to define scopes, timelines, and deliverables

Mentored and coached junior developers

Thoughtworks / Senior Consultant Developer
Feb 2016 - Sept 2020

Product and software development consulting for early stage start-ups and larger enterprises

Iterative, user-centred product delivery using lean and agile methodologies, TDD and pair programming

Mobility Vehicle Lessor — Sept 2018 - Sept 2020
Typescript, React, Express.js, Java Springboot, Kotlin, PostgreSQL, ActiveMQ, Jenkins CI

Replaced a large enterprise's ageing monolithic legacy platform with a modern tech stack

Supported a production system, helping ~6000 car dealerships lease ~1000 cars per day

Digital challenger bank start-up — April 2017 - Sept 2018
React Native, Clojure, Express.js, PostgresQL, AWS, Terraform, Concourse CI, Objective C

Worked on a AWS micro-service architecture, interacting through RESTful HAL+JSON APIs

Reduced the effort required to deploy new services from hours to minutes by creating a micro-service generator package

Built a REST client for React Native to improve handling of component-level data management

Developed prototypes and conducted user research

Supplier management portal for high street supermarket — Sept 2016 - April 2017
React, Express.js, AWS, Jenkins CI

Web-app for reuniting refugee families — April 2016 - Sept 2016
Vanilla JS, Ruby on Rails

IBM GBS / Technical Consultant
Oct 2014 - Jan 2016

Business analysis, project management, UX design

Managed the design and delivery of a BACS payment solution to pay 1.5 million employees

Samaritans   Feb 2017 - Nov 2021
Listener

PUBLICATIONS

Real-Time Binaural Room Modelling for Augmented Reality Applications   2021

Yeoward, Christopher; Shukla, Rishi; Stewart, Rebecca; Sandler, Mark; Reiss, Joshua D.

Audio Engineering Society   https://www.aes.org/e-lib/browse.cfm?elib=21532

EDUCATION

MSc Sound and Music Computing / Distinction   2017 - 2019
Queen Mary, University of London

> Thesis
>
> **Real-time binaural reverberation synthesis with virtual vector base amplitude**
> *C++, JUCE, Bela microcontroller (https://bela.io/)*
> Designed and developed a performant system in C++ for rendering synthesised binaural reverberation on low-power devices
>
> Coursework
>
> **Scattering Delay Network Reverb VST**
> *C++, JUCE, Bela microcontroller*
>
> **Interactive audiovisual flocking simulation**
> *Max, Javascript, Processing, Ambisonics*
>
> **Categorising tempo variation in DJ performance**
> *Python*
>
> **Textile Expressive FM Synthesizer**
> *C++, Bela microcontroller*

BSc Hons Physics with study in Europe / 1st   2010 - 2014
University of Bristol

> Thesis
>
> **Universal Quantum Two-Qubit Processor**
> Reporting and analysis on the development of a scalable quantum processor using photonic qubits

PERSONAL PROJECTS

Digs
React, Express.js, Heroku
Music discovery web-app for the online database Discogs
https://digs.herokuapp.com/

Personal Site
Sveltekit, Next.js, TailwindCSS
https://chrisyeo.dev