

## EXPERIENCE

### Blueberry Life

London

#### Chief Technology Officer

July 2024 - April 2025 (Chief Architect)

April 2025 - Present (Chief Technology Officer)

- > Building term life insurance designed for those with chronic conditions such as Type 1, Type 2, & pre diabetes, plus high BMI, high blood pressure, and high cholesterol.

### Hubpay

London

#### Senior Software Engineer

August 2023 - Present

- > Hubpay is a Fintech startup with a licence in the UAE, that started out with a retail foreign exchange app.
- > Currently part of a small team building a B2B FX platform for underserved markets.
- > Spring Boot + Java on the backend.
- > React + TypeScript on the frontend.

### Startup attempts

London

#### Aspiring startup founder

April 2023 - August 2023

#### Splittr

- > Teamed up with someone who had a commercial background and was looking for a technical co-founder on the YCombinator co-founder matching platform.
- > Built a B2B2C checkout platform for group events end-to-end, allowing people to acquire multiple tickets while only paying for their share.
- > Spring Boot Kotlin service on the backend hosted on AWS Fargate. TypeScript + React on the frontend. Infrastructure as code using Pulumi.
- > Had a few promising leads that ultimately did not convert.

#### Antler

- > Got accepted to Antler's 3 month cohort dedicated to developing and testing a startup hypothesis, with the aim of securing investment.
- > Found a co-founder & had weekly pitches, with constant iteration.
- > Validated ideas by conducting in-depth market research & user interviews.
- > Got advisors on board & potential customers with letters of intent.
- > Ran advertising campaigns & did "things that don't scale" in order to further validate the idea.
- > Ultimately did not get investment on our B2C proposition, mainly because of concerns over our Cost of Acquisition.

## Tech

### Languages

Java 17  
Kotlin  
Swift  
TypeScript  
JavaScript  
Python

### Frameworks

Spring Boot  
Spring Data  
OpenAPI  
MapStruct  
React  
UIKit  
SwiftUI  
Terraform  
Pulumi

### Infrastructure

AWS Fargate  
AWS DynamoDB  
AWS RDS

### Tools

Jira  
Notion  
PagerDuty  
Sentry  
Stripe  
Checkout

## AirPocket

- > Built a proof of concept web app allowing people to plan & book multi-stop trips in one go, including all flights & hotels.
- > Ran a modest ad campaign on Instagram to soft launch this.
- > Booked some trips & gathered feedback.
- > Building a second version part-time, looking to address feedback & allow more flexibility in the itineraries generated.
- > Spring Boot Kotlin service on the backend hosted on AWS Fargate. TypeScript + React on the frontend. Infrastructure as code using Pulumi.

## Marshmallow

London

### Software Engineer

August 2019 - April 2023

#### Some projects:

- > Took [iOS app](#) from a hackathon proof of concept to a 4.8 star app with 6 dedicated mobile engineers.
    - > Generated code for Spring Boot server + iOS & Android clients by leveraging OpenAPI.
    - > Integrated with Auth0 SMS passwordless login & secured endpoints with Spring Security.
    - > Built core functionality to view policy details, chat with customer support, & integrated web views in a native-friendly way.
    - > Developed a secure way to switch the backend environment of production builds of the app, so that Apple reviewers could test it without a production account.
    - > App is now used for crucial flows such as ID checks, claims & telematics.
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- > *Unlocked new segments via in-app telematics.*
    - > Started brand new team to leverage motion & location data from the app, turning it into a way to reduce car insurance risk
    - > Onboarded 2 backend engineers, mentored mobile engineers to contribute to backend
    - > Enriched & persisted transport & driving data from customers
    - > Developed a proprietary driving score that identifies less safe drivers and encourages them to improve
    - > Uncovered risky behaviours by analysing speed, acceleration, & braking & notified operations teams
    - > Detected crashes & notified intervention team
    - > Exposed location manipulation or other unwanted behaviour such as uninstalling app
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- > *Led Payment Service Provider migration from Stripe to Checkout.*
    - > Created an internal payments service capable of dealing with both providers as well as specific internal requirements.
    - > Built an invoicing system.
    - > Created SCA compliant flows on backend & frontend, supporting multiple payment scenarios.
    - > Made direct integrations with Apple Pay & Google Pay.

## Education

### Queen Mary University of London

London, United Kingdom

#### Computer Science

September 2016 - June 2019

Integrated Master's in Science

Progressed from the University of Westminster directly into the second year of a four-year integrated master's program.

I gained my MSci qualification in June 2019 while working at TransferWise.

Modules included:

- > Algorithms and Data Structures in an Object-Oriented Framework
- > Artificial Intelligence
- > Big Data Processing (with projects using Hadoop & Spark)
- > Compilers
- > Data Mining
- > Database Systems
- > Graphical User Interfaces (with projects using React)
- > Interaction Design
- > Internet Protocols and Applications
- > Operating Systems
- > Probability and Matrices
- > Software Engineering
- > Web Programming (with projects using Django)

### University of Westminster

London, United Kingdom

#### Software Engineering

September 2015 - June 2016

Completed the first year of my course at the University of Westminster whilst working.

## Fun facts

- > Big fan of road trips, bad luck when it comes to not breaking down on the way.
- > Love a good karaoke session.
- > Hackathons make me feel like a kid who just got told "here, eat all the chocolate you want".

› *Built in-house system monthly instalment payments.*

- › Allowed customers to split their annual premium into interest-free monthly card payments
  - › Tracked monies owed & payments made
  - › Adaptable based on price changes, overpayments & refunds
  - › Kept other systems in-sync
  - › Managed arrears, automatically issuing invoices & chasing
  - › Mentored junior developers in the team
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› *Introduced an Apple Wallet claims card.*

- › Generated an Apple Wallet card on the backend containing key policy information & a QR code to a web form
  - › Customers download this card to their wallets, and upon crashing, show it to a third party
  - › Third party completes web form & exchanges their details
  - › Marshmallow gets automatically notified
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› *Improved Open Banking experience.*

- › Improved existing Plaid integration so that backend driven fetching of banking transactions could provide real time feedback to frontend.
  - › Demystified error codes for customers, prompting them to take appropriate actions to fix their Open Banking connection.
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› *Made an event sourcing database searchable.*

- › Replayed events in real-time in a separate database to build an always up-to-date queryable form of our policies
  - › Linked it up with paginated search endpoints
  - › Built a search frontend on an internal portal to manage policies
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› *Developed internal tooling for the first notification of a claim by customers.*

- › Allowed frontend to send JSON patches so that every bit of information is persisted as soon as possible & a history of all changes is kept on the backend
- › Validated against JSON schema on the backend & propagated relevant errors back to the frontend
- › Replayed changes & submitted full report to third party

Wise

London

**Software Engineer**

June 2017 - July 2019

Initially in Tallinn as an intern for 3 months, then hired full-time in London.

- › Designing public facing RESTful APIs.
- › Designing new database schemas and altering large existing ones to accommodate new requirements with zero downtime.
- › Designing services for graceful degradation.
- › Migrating a core piece of functionality (money recipients) from a monolith to a micro service while maintaining uptime

- > Implementing feature requests from third party banks while maintaining backwards compatibility for previous API versions.