

MAX HOPE-CARTER

Full-stack software engineer · 3 years experience

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PERSONAL DEVELOPMENT

Independent ML & full-stack projects Sep 2025 – Present

Python · TensorFlow · NumPy · FastAPI · Next.js · PostgreSQL · Docker

- Building a machine-learning language-learning app in Next.js – github.com/mathmaxyz/japanese-with-text
- Exploring ML model development with TensorFlow – github.com/mathmaxyz/tensorflow-translation-model

PROFESSIONAL EXPERIENCE

Junior Software Developer – Universal Music Group, London May 2023 – Apr 2025

Java · Spring Boot · MySQL · Angular 17 · TypeScript · AWS · Kubernetes · Jenkins · Docker

- Shipped features to a high standard for umpgwindow.com, a business-critical application used by major international clients including Ed Sheeran, Disney and Warner Bros.
- Led a full rewrite of the UMPG Window mobile app in Ionic Angular in half the predicted time – bringing it up to Angular 17 and integrating a new IDP via OAuth2.
- Created a PDF testing library adopted by teams across the department, saving the company **\$100,000** on PDFUnit licensing.
- Managed Kubernetes pods, live-diagnosing bugs and ensuring 99.99% uptime of services.

Software Engineer (Volunteer) – S2S Dynamics, Hamburg (Remote) Jul 2025 – Sep 2025

Python · FastAPI · React · React Redux · TypeScript · AWS · Docker

- Built intuitive React UIs and Python FastAPI backend features for support-ticket management, inventory tracking and analytics dashboards on a climate-tech SaaS product.
- Worked in a fast-paced, very early-stage startup environment.

Associate Software Engineer – Marks & Spencer, London Feb 2022 – Apr 2023

Java · Spring Boot · JUnit · PostgreSQL · Azure · Apache Kafka · AWS · Docker · Kubernetes · Terraform

- Built and tested features for the Sparks loyalty platform, used by millions of customers.
- Cut flagship-app regression time from days to minutes through JUnit test automation, integrated into Azure pipelines.
- Completed training in AWS, Docker, Kubernetes, GitHub Actions and Terraform.

Japanese Customer Support – Goodgame Studios, Hamburg Aug 2020 – Aug 2021

- Resolved customer complaints to positive outcomes using business-level Japanese language skills.
- Investigated customer-reported bugs in SQL database logs and liaised with QA and developers on solutions.

EDUCATION

Full-stack Software Engineer Bootcamp – Bright Network Technology Academy Sep – Dec 2021

HTML/CSS, JavaScript, React, Java, PostgreSQL and Spring Boot; led Agile team projects.

BA Japanese – SOAS, University of London Sep 2016 – Jul 2020

JLPT N2 / C1 proficiency; Japanese history, literature and social issues (taught in Japanese).

Economics Year Abroad – Osaka University, Japan Sep 2018 – Aug 2019

Sociology, Economics and Global Politics.

ADDITIONAL EXPERIENCE

Community Festival Producer – Made By Us Festival, The Old Church, Stoke Newington Jul – Sep 2022

Produced a community festival in a team of 15.

CBT Workshop Producer – Rethink Mental Illness, London Nov 2019 – Jul 2020

Produced mental-health workshops and digital magazines on CBT methods for students.