Isaac M. Jordan – Full-Stack Software Engineer

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Summary

Full-stack software engineer with **8 years experience** building and operating **global products** focussed on **brilliant user experience**. Experienced with refining and optimizing teams to sustainably deliver high-quality software, and shipping features that delight customers.

Work Experience

- **G-Research** — London, UK
  Software Engineer [C#, TypeScript, React, Angular, K8s, Kafka, SQL] — Oct 2021 - July 2024
  - **Enhanced the mission-critical safety of global trading** by designing and developing real-time rejected trade analysis tooling, with great customer feedback.
  - Led a project to unblock new ways of trading by **reducing the effort to configure new trading connections by 90%**, through a new connection config DSL and approval process.
  - Implemented a widget-based UI framework enabling traders to **build their own dashboards** of components implemented by other teams, **reducing the need for bespoke development**.
  - **Improved the team's satisfaction with development processes** by implementing new SDLC practices, such as running regular retrospectives, reducing code review turnaround time, and moving project management to a more flexible kanban model.
  - Voluntary member of several working groups, including User Interface, and Observability groups, helping **establish technical direction and best practices across the company**.

- **AWS (Amazon CodeGuru Profiler)** — London, UK
  Software Development Engineer II [TypeScript, React, Kotlin, Java, AWS] — Sep 2019 - Oct 2021
  - **Launched a new AWS service with a global team**, and led development of simplified profiling visualisations, onboarding workflows, and new APIs for data correlation across AWS services. Authored the first public blog post, increasing product visibility.
  - **Owned and optimized** the console front-end, maintaining a high-quality codebase as the service expanded to 5 new AWS regions. Guided new engineers in front-end best practices, personally **cutting page load times by 50% and reducing bundle size by 20%**.
  - **Fostered a culture of continuous improvement** by mentoring other engineers and regularly improving development and ops processes. Introduced follow-the-sun on-call rotas and safer feature launch processes. Implemented reusable infrastructure libraries, **removing over 10k lines of code**.

- **Amazon** — Edinburgh, UK
  Software Development Engineer II / I / Intern [Java, TypeScript, React, AWS] — Sep 2017 - Sep 2019
  - Launched a new programmatic video advertising program and **increased ad performance by 10x in 6 months** through rigorous A/B experimentation, **exceeding our team goal of $500k sales**.
  - **Enabled small advertisers to get more value from their videos** by integrating my team's video rendering API with the Amazon Stores service. Utilised AWS Lambda, DynamoDB, and S3 to bridge the services, and built new TypeScript/React front-end components for Amazon Stores.
  - Internship: **Created a patent-awarded prototype** application to convert existing video content into personalisable videos in a fast (real-time) and automated fashion, using Java and OpenCV.

- **TBR Global Chauffeuring** — Glasgow, UK
  Software Developer (Intern, then Part-Time) [C#, MVC.NET, JavaScript] — Jun 2015 - May 2016
  - **Cut manual ingestion time of new airport arrivals by 95%** by preprocessing data using OpenAddressesUK and Google APIs.

- **Chi Squared Innovations** — Remote
  Software Developer (Part-Time) [Python, Django, JavaScript, d3.js] — Sep 2014 - Jun 2015

Education

- **University of Glasgow**   Glasgow, UK
  First Class BSc (Hons) in Computer Science   *2013 - 2017*
    - **Received Third Year Class Prize** - Strong A grades in all Computer Science classes, and many Mathematics classes.
    - First Prize at Glasgow University Tech Society Hackathon 2015.

Projects

- **Evolution Racing Academy**   https://evolutionracing.academy
  Online racing league dedicated to coaching newer drivers   *2023 - Present*
    - **Voluntary lead developer** of web platform powering automated ingestion and tracking of race results, driver statistics, and league standings.
    - Currently **over 500 drivers** registered and 11 seasons of racing.
    - **Built using Remix framework**, React, TypeScript, TailwindCSS, and Prisma ORM.
    - **Continuously deployed via GitHub Actions to Fly.io** where it runs with an embedded SQLite database.
- **IsaacJordan.me**   https://isaacjordan.me
  Personal website and blog   *2016 - Present*
    - **Since 2016 I've maintained a personal website** representing my work history, along with an occasional blog containing technical and non-technical articles.
    - Updating the tech stack of this website has been a great way to **experiment with new technologies**.
    - Originally developed with Python and Django on AWS Lambda / RDS, now uses Remix framework, React, TypeScript, TailwindCSS, and Sanity CMS.
- **OBS Screen Recognition**   https://github.com/isaac-jordan/obs-screen-recognition
  Open Broadcaster Software plugin   *2020*
    - **Developed an OBS plugin for Twitch streamers** to automatically switch scenes in OBS depending on in-game content.
    - **Used within the Hell Let Loose game streaming community** to hide tactically sensitive information from broadcast.
    - Built using Python, OpenCV for computer vision, Numpy, and MSS for performant screen grabs.
- **Google Maps API .NET**   https://github.com/ericnewton76/gmaps-api-net
  Google Maps API C# Library   *Jun 2015 - Sept 2015*
    - Significant contributor to open source class library.
    - Personally **implemented Places API, and TimeZone API** in the library (credited as 'Sheepzez').
    - Helped manage tickets created by API consumers, and decided how issues are tackled.

Skills

Languages: JavaScript (8 years), TypeScript (7 years), C# (4 years), Java (4 years), SQL (4 years), Kotlin (2 years), Python (2 years)

Front-End Technologies: React (5 years), Angular (3 years), Material UI, Remix, DaisyUI, TailwindCSS, Bootstrap, HTML5, CSS4, jQuery

Back-End Technologies: Kubernetes (k8s), Kafka, PostgreSQL, Microsoft SQL Server, Docker, SQLite, Remix, Prisma ORM, HDFS, Trino, Django, OpenCV

Platforms: AWS (Lambda, Fargate, DynamoDB, S3, RDS, CloudFormation, CloudWatch, CodePipeline, IAM, SNS, SQS, CDK, etc.), Kubernetes (k8s), Fly.io, GitHub Actions, Jenkins CI/CD

Miscellaneous: Passionate about crafting high quality UX from both the back-end and front-end. Exceptional troubleshooting and debugging skills. Able to quickly grasp interactions across service boundaries.