

Jay Bedeau-Stark | Principal Engineer

Passionate about AI

Portfolio site

jbstark.ai



Time zone

London (open to GMT +/- 4)
Remote or 1d/w roles preferred.

Technical Skills

Artificial Intelligence / ML

Python, HuggingFace
Transformers, PyTorch,
Tensorflow, Open AI API.

Architecture + Dev Ops

Apache Kafka, Docker, Google
Cloud Run, AWS, Serverless,
Github Actions

Mobile / Frontend

React Native, Vite, Next.js,
Jest/Vitest, Storybook, Redux,
Electron, Playwright, Cypress.

Backend

FastAPI, Node, TypeScript, GCP,
Serverless, Docker, Postgres,
MongoDB, AWS (EC2, Lambda),
Cloudflare, GraphQL, Supabase.

Web3 + Blockchain

Moralis, Infura, Alchemy,
ThirdWeb, Crossmint, Solidity.

Highlights

- Lead developer of new AI e-commerce service at Ford.
- Led development of Legal & General mobile app (React Native)
- Lead developer and architect on AI dyslexia screening app.
- Co-developed Ethereum Wallet microservices for SupraOracles.
- Built custom CMS for e-tailer Matches.
- Extensive mentoring, pair programming and XP experience.
- Identified and fixed security vulnerability in Sky.com masthead.
- Built WCAG AA Compliant component library in React for Prudential.

Testimonials + Previous Clients



Tareq Al-Zubaidi
Software Engineer at
Amazon
January 18, 2019, Tareq managed
Jermaine directly

Jay is a talented professional, very friendly, and always ready to offer support whenever necessary. He was able to switch between a variety of challenges at short notice, and delivered code on schedule.



Tim Rottach
Dir. of Product Line
Marketing at Couchbase
January 28, 2015, Tim managed
Jermaine directly

Jay was a great pleasure to work with. He took on new projects with enthusiasm and always delivered positive results on time. He brought a lot of creativity and a fresh approach to the work he did. He is someone I would be very happy to work with again.



Education



Harvard University Online (2025 – Present)
Introduction to Artificial Intelligence



British Computer Society (2014)
Certificate in Agile (Distinction, 98%)



University of the Arts London (2008 – 2011)
Game Development (First Class Hons.)



Queen Mary University (2007 – 2008)
BSc. Computer Science (First-year only.)

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Personal Statement

I'm a friendly, AI focused, Agile-certified, Principal Engineer with 10+ years of experience building performant apps alone and extensively mobbing (pair and group programming).

Most of my career has been planning, building react and native UI frontends and creating scalable, serverless or containerized APIs serving clients such as Mitsubishi, SIEMENS, Pepsi, Burt's Bees, Zilliqa, Sainsburys and others across the SDLC.

I'm currently focused on building innovative AI features to enhance existing services, leveraging tools like TensorFlow, PyTorch, and LLM/RAG to expand businesses' delivery.

Work History

Dec 2023 – Present

Senior Developer (Contract), Ford Motor Company

- Spearheading development of a confidential AI-driven solution for Ford.
- Defined and advised on technical direction, including tech stack decisions and architectural discussions.
- Responsible for frontend development of Ford's new electric vehicle checkout platform using **React, Redux, Cypress**.
- Built reusable, scalable UI components with a strong focus on **TDD** and **component reusability**.
- Coordinated best practices across teams, improving developer workflow and code quality.

May 2023 – Dec 2023

Principal Developer (Permanent), Talamo Ltd (AI Startup) *(Left due to funding issues)*

- Acted as **Development Lead and Platform Architect**, producing technical diagrams and securing deployment infrastructure on **GCP and Supabase**.
- Conducted **R&D** to identify project bottlenecks and deliver scalable solutions.
- Designed and restructured the tech stack for rapid delivery using **React, TypeScript, Node.js, Chakra UI, and Storybook**.
- Integrated CMS solutions and third-party APIs into the platform.
- Implemented **unit and integration testing** across the codebase.

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- Introduced a **microservices architecture** to improve scalability and modularity.

Mar 2022 – Apr 2023

Freelance Developer (Contract), ALE Co Ltd

- Developed an **ERC721A NFT smart contract** for a ticketing industry client.
- Implemented **Web3.js / WAGMI wallet authentication** within a React + WordPress client application.

Oct 2022 – Jan 2023

Senior Developer (Contract), Zilliqa

- Supported development of a Web3 **play-to-earn gaming platform**.
- Designed and launched a **Next.js React B2C website** for the gaming service.
- Built and deployed a **Serverless API** to support the gaming infrastructure.

Mar 2022 – Aug 2022

Senior Full-Stack/Web3 Engineer (Contract), Supra Oracles

- Contributed to development of a Web3 wallet, including server-side transaction processing.
- Built wallet app functionality using **React and Node.js**.
- Delivered backend services in **TypeScript, Node.js, and Apollo GraphQL**.
- Deployed services on **AWS** and wrote extensive unit tests in Jest.

Feb 2022 – Mar 2022

Senior Engineer (Contract), Pizza Hut Digital Ventures

- Delivered critical updates to checkout flows for the Canadian market, integrating a new payment provider using **React, Node.js, GraphQL, and AWS**.
- Developed **integration tests in Jest** to ensure reliability under tight deadlines.
- Automated manual workflows by building new BAU (Business As Usual) scripts.

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Jan 2021 – Feb 2022

Lead Full-Stack Developer (Permanent), NTT Data

- Led a development team delivering a telecoms **e-commerce platform** with **Next.js**, **TailwindCSS**, and **Apollo GraphQL**.
- Owned architecture, planning, and technical consulting, providing leadership to developers.
- Championed best practices across **React Native**, **React**, and **Node.js** applications for client projects.

Nov 2019 – Nov 2020

Senior Software Engineer (Contract), Infinity Works / Sainsbury's

- Built UI for a self-serve admin dashboard using **React**, **Styled Components**, **Node.js**, **GraphQL**, **TypeScript**.
- Designed reporting tools leveraging **React**, **Redux**, **Node.js**, **D3.js**, **Snowflake**, and **GraphQL** for large-scale data insights.

Feb 2018 – 2023

Software Engineer (Freelance), Unflawed Technology

- Delivered **React and Node.js app development** for multiple clients.
- Provided consulting services on **GraphQL**, **Angular**, and **React projects**, helping businesses accelerate delivery.

Jul 2019 – Sep 2019

Senior Software Engineer (Contract), The Economist Group

- Developed two **React (Gatsby) + Redux front-end applications** focused on **data visualisation** using **D3.js**.

Oct 2017 – Jul 2019

Software Engineer (Contract), Omnicom Group

- Planned and built a pensions self-help platform using **Angular and React**.
- Delivered a Node.js/React product showcase app for internal stakeholders.
- Developed a range of **React and Angular apps** for Omnicom's global brands.

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Mar 2017 – Jun 2017

Full-Stack Software Engineer (Contract), Brandbassador

- Built **Node.js APIs** and an **Angular/Ionic mobile app** for a new social networking platform.

Feb 2015 – Mar 2017

Front-End Developer (Permanent), Thomas Cook Group

- Delivered **Angular, D3, and Node.js solutions** for internal analytics and reporting tools.

2012 – Dec 2014

Digital Producer, RIE Studios

- Served as **Agile Project Manager** and lead developer across **JavaScript and C# projects**.
- Rapid prototyping and pitching of apps for client acquisition and contracts.

Oct 2011 – Aug 2012

Marketing Communications Manager, Arkessa

- Delivered **PHP & WordPress web development** projects.
- Oversaw SEO strategy and managed a £250k marketing budget.

Mar 2010 – Mar 2011

QA Tester, SEGA Europe

- Performed black-box testing on AAA titles before retail release.
- Maintained and triaged bugs in **TTP and Mantis** bug tracking systems.