Jide Oyelayo

Software Engineer · London, UK

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Software engineer delivering backend APIs, Python dashboards and React/TypeScript applications, from client work to full-stack personal projects.

EXPERIENCE

Software Engineer, Logos Research

Apr 2026 – Present

- Own and optimise the search service across more than 400,000 indexed items, using Python and C# to deliver fast, reliable retrieval at platform scale.
- Develop approximate nearest-neighbour (ANN) retrieval pipelines in Python, enabling agents to find relevant informalisation text across a large corpus.
- Build the data pipelines and APIs that connect ingestion, indexing and retrieval to the platform's Lean 4 formalisation workflows.

Freelance Software Engineer, Great Child Nursery

Aug 2025 – Sep 2025 · London, England

- Built the nursery website in React and TypeScript on Firebase, with client-side caching to cut database calls.
- Added a CMS-style editing interface.
- Wrote a Go API for the enquiry email workflows.

Junior Software Developer, Carbon & Finch

Jan 2024 – Jun 2025 · Surrey, England

- Developed and optimised SQL jobs that analysed large volumes of sales-order data.
- Moved sales-order and invoice APIs from SOAP to REST.
- Implemented unit tests with Python and C++ scripts in Azure DevOps.

Junior Software Engineer, IDEX Biometrics

Jun 2022 – Sep 2022 · Farnborough, England

- Developed a MATLAB client for analysing fingerprint-sensing biometric systems.
- Designed finger-detection scan firmware using C++ and Python.
- Documented five scanning methods to reduce troubleshooting time.

Technical Director, Engineers Without Borders University of Warwick

Jun 2021 – May 2022 · Warwick, England

- Automated society operations with UiPath and C#, saving more than three hours each week.
- Delivered more than ten hours of introductory AutoCAD teaching.
- Designed a PID algorithm for a modular heat exchanger.

PROJECTS

Multitype Order Book

Mar 2024 · C++, GoogleTest

- Implemented order types including good-till-cancelled and market orders.
- Used GoogleTest to verify order-book behaviour and reliability.

JobMouse

2024 · Python, Go, React, Firebase, Playwright

- Built an applicant-side job-application tracker with CV and cover-letter tools and application analytics.
- Released as a live site at jobmouse.co.uk.

Zybo FPGA Video Processing

Apr 2023 · C, C++, Verilog, Zybo Z7-20

- Implemented Prewitt and Sobel edge detection as convolution over row-buffered pixel windows.
- Wrote custom Verilog IP blocks for pixel transformations.

Low-Cost Smart Agricultural Sensing System

Mar 2023 · Arduino, MATLAB, React Native, REST APIs

- Built a sensing system for small-scale rice farmers in South Asia using an eight-fold decision tree.
- Led development of a React Native app covering market analysis, pest detection, and crop planning.

SKILLS

Python, C#, JavaScript, React, SQL, C++, Git, Algorithms, Bash, C, CSS3, Electronics, Finance, FPGA, GitHub, Machine Learning, MATLAB, MySQL, Quantitative Analysis, Software Engineering, STM32, SystemVerilog, Terminal, Verilog, VHDL, Visual Studio Code

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EDUCATION

University of Warwick

Sep 2019 – Jan 2024

Master of Engineering in Electrical and Electronic Engineering. Degree classification: 2:1. Engineering Horizons scholarship (ARM, UKESF).

Brampton Manor Academy

Sep 2017 – Jun 2019

A levels in Mathematics, Further Mathematics, Chemistry, and Physics. A*A*AA respectively.

Brittons Academy

Oct 2013 – Jun 2017

Secondary education. 11 grades from A* to B / 9 to 6, including Mathematics (8) and English Language (7).

CERTIFICATES

- Financial Derivatives: A Quantitative Finance View, Udemy, taught by Cameron Connell, Apr 2024
- Python for Finance: Investment Fundamentals & Data Analytics, Udemy, taught by 365 Careers, Apr 2024
- Machine Learning A-Z: AI, Python, Udemy, Mar 2024
- C++ Programming from Beginner to Advance 2024 Edition, Udemy, Mar 2024

Courses and simulations

- JPMorgan Chase & Co. Quantitative Research Virtual Experience Program, Forage, Sep 2023
- J.P. Morgan Software Engineering Virtual Experience, Forage, Sep 2023
- Goldman Sachs Software Engineering Virtual Experience Program, Forage, Apr 2021