Manny Sandhu — Software Engineer

London, United Kingdom

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Professional Summary

Full-Stack Software Engineer specializing in **scalable, secure, and high-performance applications**. Skilled in **React, Next.js, Node.js, TypeScript, and Spring Boot**. Passionate about **cloud computing, Agile development**, and building high-impact solutions. Strong problem solver and communicator.

Technical Skills

Languages: JavaScript, TypeScript, Java, Python

Frontend: React, Next.js, Redux

Backend: Node.js, Express, Spring Boot

Databases: SQL, NoSQL, Graph (Neo4j)

APIs: REST, GraphQL, Authentication (OAuth, JWT)

Cloud/DevOps: AWS, Docker, Terraform, CI/CD (Git, GitHub Actions, Jenkins)

Testing: Jest, React Testing Library, Cypress

Methodologies: Agile Development (Scrum, Kanban)

Experience

IBM, London
Software Engineer 2021–2024

- Designed and developed **full-stack applications** across various industries, focusing on **scalability, cloud architectures, and automation**.
- **Greenfield Web Platform:** Led development of a **Spring Boot & React** application, designing backend architecture and reusable UI components. Later transitioned the system to a **low-code solution**.
- **Cloud-Based Data Processing:** Contributed to an **AWS-driven platform**, integrating **AI-powered analytics** and modular microservices using **Docker Compose**.
- **Infrastructure Management:** Led development of a **Neo4j-backed system** on **AWS**, implementing **Node.js logic** and improving **Vite-powered dashboards** for visualization.
- **Serverless Automation:** Led the design and development of an **AWS-based screening system**, using **Node.js Lambdas**, **DynamoDB & SQL**, and **Python scripts** for automation.

AND Digital, Yorkshire
Software Developer 2020–2021

- Developed and automated **web applications** using **React, Node.js, and API integrations**, improving efficiency and reducing manual effort.
- **Process Automation:** Designed and implemented a **React-based dashboard** integrating **external APIs**, streamlining workflows and reducing processing time.
- **Frontend Development:** Built **responsive, accessible UIs** with **React**, ensuring a seamless user experience across devices.
- **CI/CD & Deployment:** Automated **CI/CD pipelines**, enabling faster and more reliable deployments.

Storm Ideas, Edinburgh
Android Developer (Intern) 2019

- Maintained and enhanced a **high-traffic Android application** for a major client, used by **over a million users** on the Play Store.
- **App Maintenance & Feature Development:** Improved stability, fixed bugs, and implemented new features using **Kotlin, Android SDK, and Google View Components**.
- **Architecture & Design Patterns:** Worked within an **MVC architecture**, utilizing the **Observable pattern** to manage UI state and data flow.

Education

University of Edinburgh, MSc in Computer Science, *Pass* 2017 – 2018
Brunel University, London, BSc (Hons) in Computer Science, *First-Class Honours* 2012 – 2016

Additional Information

Availability: Available Immediately

Nationality: British National

Interests: System Design, Microservices, Scalable Architectures, AI-Driven Platforms, UX/UI Engineering.