Siddharth Joshi
https://bento.me/builtbysid

EXPERIENCE

Senior Software Engineer   Oct 2024 - Present
BT Group, London

- Accelerated onboarding and early impact: Ramp-up time cut in half by quickly mastering a complex codebase, contributing production features within weeks. Estimated to drive £28K in weekly net returns through faster onboarding and reduced training costs.
- Built foundation for high-value feature: Designed and implemented core architecture for a new flagship app capability, enabling other engineers to build upon it. Feature projected to deliver £6M+ annual savings once fully deployed.
- Improved engineering efficiency and cross-team support: Mentored new Flutter developers, assisted web engineers transitioning to Flutter, and authored widely adopted Zscaler troubleshooting documentation that reached 200+ engineers, preventing days of downtime.
- Drove critical product revamp: Collaborated with two engineers to overhaul a core customer journey, owning the QR scanning and auto-connection flow. Delivered both production code and a technical deep-dive write-up that enhanced organizational knowledge sharing.

Senior Software Engineer   May 2023 – Oct 2024
TWYN LTD, London

- Twyn developed an **LLM AI**-backed platform for having AI-driven conversations with celebrities, including but not limited to Lionel Messi and surfer Jamie O'Brien, with $15 million in funding and ~2000 users.
- Took a proactive approach to learning new technologies by promptly familiarising myself with the company's tech stack within my 1st week to efficiently contribute to ticket resolutions from week 2.
- Developing clean and well-structured **Flutter** code with an emphasis on unit testing using Mockito, increasing the reliability and maintainability of the application by 20%.
- Assisted senior developers to migrate **Azure Media Services** to an inhouse developed solution for seamlessly providing video encoding and streaming capabilities, which saved upwards of £10k.
- Spearheaded the development and deployment of marketing website, using **Next.js**, in 1 week, ahead of a company pivot, effectively showcasing the company's new direction.

Founder / Technical Lead   Nov 2021 - Jan 2023
Vergroot Development LTD, Birmingham

- Established and led Vergroot; a thriving tech agency providing mobile app development, machine learning, and web development services to over 10 SMEs. Participated in regular discussions with clients and team members to gather requirements and ensure timely, high-quality project deliveries. One major project included:
- Keyphrase Extraction Project
  - Iteratively developed a proprietary key phrase extraction solution using **Python** and **open-source** phrase extraction algorithms assisting over 50 companies to increase file organisation efficiency by 75%.
  - Spearheaded the implementation of multithreading in **Python** to batch process documents, reducing program time by over 50%.
  - Engineered a **Python** file parser by leveraging system libraries to ingest, OCR, cleanse, and tokenize text files, consolidating logic and accelerating development cycles by 20%.
  - Created an executable **PowerShell** script to automate the installation of dependencies, folder structures, and the **Python** program on **Windows** systems, significantly simplifying installation and expanding user accessibility by 50%.

Software Developer   Dec 2021 - Dec 2022
Civico, Birmingham

- At Civico I contributed to the development and maintenance of an audio/video conferencing platform using **AngularJS** and **TypeScript**. Regularly collaborated with the team lead to deliver a reliable conferencing experience for over 6 UK based councils.
- Implemented advanced audio ducking functionality for multiple participants. Engineered seamless volume reduction algorithms to ensure clear communication by automatically adjusting background audio levels when participants speak, allowing meetings to flow with 90% less crosstalk.

- Resolved complex bugs within the conferencing platform, demonstrating strong troubleshooting skills and attention to detail. Employed systematic debugging techniques to identify root causes and implement effective solutions, ensuring optimal system performance and reducing overall system bugs by 40%.
- Introduced a 'guest' participant role to the system, enabling 100s of non-registered users to seamlessly access public government conference streams without the need for authentication or sign-up while maintaining security protocols, thereby enhancing accessibility, and expanding audience reach.

Fullstack Software Developer
BCU Software House   Apr 2020 - Jul 2022
- Mentored 2 junior developers and provided technical guidance and support through peer programming.
- DFMA
  - Provided support in the development of a full-stack application, using **React.js** frontend and **Java Spring Boot** backend, which aimed at testing the hypothesis of utilizing an ontology-based database in comparison to a relational database.
  - Implemented a tree view feature to display data retrieved from backend endpoints, enhancing the user experience and data visualization capabilities of the application.
- Drug Allergy
  - Spearheaded the development of a **Flutter** mobile application, used by over 100 conference attendees, which allowed users to input ten multiple-choice answers and receive personalized drug allergy diagnosis outcomes.
  - Applied algorithmic expertise to implement a novel drug allergy diagnosis algorithm in Dart, based on client guidance and research from academic literature.
  - Transformed the application into a **Progressive Web App** (**PWA**), increasing accessibility by 10%, allowing users to access it via web browsers.

Software Developer   Aug 2020 - Aug 2021
Pinewood Technologies, Birmingham
- At pinewood I contributed to the development and maintenance of the company's dealership management ecosystem containing 6 apps using **Xamarin** Forms and **C#**, which served over 100+ dealerships.
- Gained proficiency in **C#** programming through hands-on experience and mentorship, leveraging expertise to master data binding techniques with **XAML** in **Xamarin Forms**.
- Demonstrated adeptness in utilizing the **MVVM** design pattern for clean architecture, while actively contributing to bug fixes, new feature development, and peer programming tasks.
- Spearheaded the implementation of a feature to remove backgrounds from images utilizing a background remover and replacer **REST API**, allowing over 1000 clients to use proprietary backgrounds.

EDUCATION

Bachelor of Science (B.S.) - Computer Science   Sep 2018 - Jun 2022
Birmingham City University, Birmingham
First Class Overall
Graduated with a first-class degree in BSc Computer Science. Throughout my studies, I have gained a strong foundation in computer science principles and technologies, including programming languages, data structures, algorithms, and software engineering. I have also developed skills in problem-solving, critical thinking, and communication, which have allowed me to excel in both individual and team-based projects. I believe that my hard work and dedication have prepared me for a successful career in computer science.