Sidharth Singh

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EDUCATION

California State University <div align="right">Los Angeles, CA</div>
Master of Science in Computer Science <div align="right">*Aug. 2022 – May 2024*</div>

University of Mumbai <div align="right">Mumbai, India</div>
Bachelor of Engineering in Computer Engineering <div align="right">*Aug. 2017 – May 2021*</div>

EXPERIENCE

Teaching Assistant <div align="right">Aug 2023 – Present</div>
California State University <div align="right">*Los Angeles, CA*</div>

- Designed and conducted engaging weekly classes and biweekly problem-solving sessions for Data Structures and Algorithms in Java and Python, fostering a collaborative learning environment.
- Supported over **150 students** by hosting office hours, leading weekly labs, and providing detailed feedback on assignments, **enhancing understanding and code quality.**
- Developed and maintained comprehensive course materials, including problem sets and lecture slides, ensuring clear and effective communication to support student learning.

PROJECTS

Cittale – *TypeScript, Next.js, React, Supabase, SQL, Tailwind* | LINK <div align="right">May 2024 – Present</div>

- Developed a dynamic web platform aimed at informing users about local events and boosting visibility for businesses, fostering community engagement and local commerce.
- Engineered with **Next.js** for efficient server-side rendering and optimized SEO, ensuring rapid loading times and superior search engine performance.
- Employed **React** to craft an interactive and responsive user interface, delivering a seamless experience for discovering events and promoting local businesses.
- Leveraged **Supabase** to implement robust backend functionalities, enabling secure data management and enhancing user interaction capabilities.
- Designed the interface using **Tailwind CSS**, ensuring a contemporary and intuitive user experience.

FlashGO – *TypeScript, Next.js, React, Tailwind* | LINK <div align="right">June 2024 – Present</div>

- Developed an innovative web application aimed to aid students in practicing Data Structures and Algorithms through an intuitive flashcard system.
- Implemented the Free Spaced Repetition Scheduler Algorithm to optimize review intervals, enhancing learning efficiency and retention.
- Utilized **Next.js** for server-side rendering and static site generation, ensuring fast load times and improved SEO.
- Employed **React** to create a dynamic and **responsive user interface**, providing a seamless and engaging user experience.
- Leveraged **Zustand** for efficient state management, facilitating smooth user interactions and efficient flashcard management.
- Styled the application interface with **Tailwind CSS**, ensuring a modern and consistent design aesthetic.

Snippet Social | *JavaScript, HTML/CSS, MongoDB, Vue.js* <div align="right">Aug 2023 – Dec 2023</div>

- Employed modern methodologies, including **MVC architecture**, to construct a robust platform facilitating seamless sharing and management of code snippets for programmers.
- Implemented **industry-standard security measures** such as **bcrypt** and **jwt** for safeguarding user data integrity.
- Orchestrated **Vue.js** for frontend development, ensuring an intuitive and responsive user interface, while leveraging **MongoDB**, **Express.js**, and **Node.js** to establish a scalable and efficient backend infrastructure.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, C/C++, SQL (Postgres), HTML/CSS
Frameworks/Tools: Next.js, React, Vue.js, Node.js, Git, Tailwind, MongoDB, Postman, Docker, Flask, JUnit, FastAPI, PyTorch, TensorFlow
Libraries: Pandas, NumPy, Matplotlib
Other skills: Azure, AWS, GraphQL, Restful API, YAML