Amrit Sinha

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Education

BITS Pilani   *Oct 2020 - July 2024*
B.E. (Hons.) Electronics and Instrumentation

Experience

Instahyre - SDE 1   *March 2024 - Current*

- Tech Stack: **Python, Django, MySQL, Redis, RabbitMQ, Elasticsearch, AngularJS, HTML, CSS**
- Designed and implemented a **Redis-backed OTP verification flow**, preventing premature database updates and ensuring secure, consistent phone number and email changes.
- Led a large-scale refactor to modularize the candidate-side application, **reducing code coupling and accelerating feature development.**
- Optimized high-traffic API endpoints, reducing response times **by up to 90%** and significantly improving candidate experience.
- Built and upgraded **candidate-facing UI components using raw HTML and custom CSS**, refactoring legacy styles to improve layout **consistency, responsiveness, and long-term maintainability**.

ofScale - Full Stack Engineer Intern   *Nov 2024 - Jan 2025*

- Tech Stack: **JavaScript, React.JS, Next.js, Tailwind CSS, Golang, MySQL**
- Crafted new API endpoints for a new segment of the admin management website using **Golang and MySQL**.
- Developed and implemented the **mobile view** for the entire admin management website.
- Developed a cron scheduler in Go utilizing the **gocron library**, from initial design to final implementation.

Zluri Technologies - Full Stack Engineer Intern   *Jul 2023 - Dec 2023*

- Tech Stack: **JavaScript, Node.js, React.JS, Next.js, Express.JS, MongoDB, PostgreSQL**
- Worked with a team of **10+ developers and testers within an Agile framework**.
- Developed a vendor management microservice that **increased modularity and decreased code duplication by 30%**.
- Built a currency conversion feature leveraging the Exchange Rate API to provide real time or historical exchange rates.
- Enhanced database integrity by developing scripts for the removal of incorrect data entries and the addition of new entries.
- Migrated APIs from one database to another, improving **API response time by nearly 40%**.

Skills

- **Programming Concepts:** Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, System Design (HLD, LLD)
- **Languages:** JavaScript, HTML, HTML5, CSS, CSS3, TypeScript, Golang, C, C++, Java, Python
- **Libraries / Frameworks:** React.js, Next.js, Redux, AngularJS, Node.js, Express.js, Bun.js, Django, Tailwind CSS, Bootstrap, Django Rest Framework, Tastypie
- **Databases:** SQL, PostgreSQL, MySQL, MongoDB, Elasticsearch
- **Tools / Platforms:** Git, Linux, Figma, Mercurial, Docker
- **Caching / Messaging Systems:** Redis, RabbitMQ

Projects

Task Management System | GitHub | Production   *Oct 2024*

- Tech Stack: **Next.js, React.JS, CSS**
- Implemented task management which includes features like adding, editing, deleting, and marking tasks as completed.
- Designed a **responsive user interface**, with priority-based color-coding for clear task distinction.
- Utilized **local storage** to persist tasks between page reloads, enhancing user experience.

Authentication System | GitHub | Production   *Sept 2024*

- Tech Stack: **Node.js, Express.JS, React.JS, Redux, CSS, MongoDB**
- Designed and implemented secure user authentication **using JSON Web Tokens (JWT) and password hashing.**
- Integrated **Google OAuth API** to provide users with an additional login option.
- Optimized application performance by utilizing browser local storage to cache course data, reducing database API calls.

Certifications

- Advanced React - Meta, Coursera
- Ultimate Django Course - Code with Mosh