Sagnik Biswas

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EDUCATION

SRM Institute of Science and Technology, Kattankulathur — Tamil Nadu, India
Bachelor's of Technology in Computer Science and Engineering — *July 2019 – July 2023*

EXPERIENCE

Software Engineer — Gurugram, India
Farmako Healthcare (YC-S20) | Homepage | HealthTech — *July 2023 – Present*

- Developed **native plugins for the main user facing application** which increased performance from 30% to 70%, taking the application from 15K+ downloads on Playstore and App Store to 150k+ downloads.
- Revamped the UI and worked on adding new features which elevated the user experience and in turn led to increasing the application's average rating to increase from **3 to 4.1 stars** on both Playstore and Appstore.
- Designed and developed the design system framework used within the technical team which led to a developer productivity **increasing 500%**.
- Implemented a revenue-generating API that empowers external partners within the esteemed **Government ABDM Infrastructure** using **GoLang**.
- Worked as an **individual contributor** on internal packages and **collaborated with team members**. Across the engagement remained hands-on with the design, development and maintenance cycle.

Software Engineer Intern — Gurugram, India
Farmako Healthcare (YC-S20) | Homepage | HealthTech — *April 2022 – June 2023*

- Developed the company's main user facing application from scratch and scaled it to **15k+ downloads**.
- Created user analytics dashboard to capture user behavior and use the data to make ground level as well as product level decisions.
- Worked on IoT enabled smart devices for warehouse automation leading to a packing time reduction from **25 minutes to 5 minutes**.
- Created internal applications to track shipments and delivery partner statuses live to facilitate quick delivery pickups.

Software Engineer Intern — Bangalore, India; Remote
Unique Identification Authority of India | Homepage | Government of India — *June 2022 – November 2022*

- Worked with a cross-functional team to architect and implement a standalone service, delivering periodic reports and technical presentations to senior management to guide strategic decisions.
- Refactored and implemented a new workflow for address verification, specifically for address change requests.
- Developed and implemented a new address validation system, resulting in a reduction of duplicate addresses within the database. This improvement streamlined address change requests, leading to faster turnaround times.

PROJECTS

Drug Recommendation System | *ReactJS, FastAPI, Neo4J, Material UI* | GitHub — *August 2023*

- Developed a rapid drug discovery system to identify similar drugs exhibiting similar therapeutic effects as a single contributor.
- The system suggests drugs based on therapeutic target and drug class, providing a similarity score to enhance interpretability and facilitate comparison between drug candidates.
- Employs the Jaccard index for similarity-based drug retrieval, ensuring rapid results and eliminating the need for training. This facilitates immediate analysis and suggestion for any novel drug entry.

Producto | *NodeJS, Flutter, MongoDB* | GitHub — *July 2021*

- Designed and implemented a note-taking application to optimize workflows and improve personal or team productivity.
- Integrated collaboration capabilities, allowing users to seamlessly share notes and engage in collaborative workflows.

ACHIEVEMENTS

Aadhaar Hackathon (Organized by UIDAI) — First Prize
Theme: Hackathon — *November 2021*

TECHNICAL SKILLS

Programming Languages: Dart, JavaScript, TypeScript, Python, Java

Frameworks & Libraries: Flutter, ReactJS, NestJS, NodeJS, FastAPI

Databases: MongoDB, Firebase, PostgresSQL, MySQL, Oracle SQL

DevOps / Cloud: CI/CD, Serverless, Microservices, API Design, System Design, Docker, AWS, Google Cloud

Other Skills: Alexa Skill Development, IoT Development

Volunteering

SRMKZILLA (Official Mozilla Campus Club of SRMIST)   Chennai, India

Head of Technical   *srmkzilla.net*

- Led technical team and delivered multiple open-source projects under SRMKZILLA.
- Conducted multiple technical workshops on frontend web and mobile development and IoT development.

Alexa Developers SRM   Chennai, India

Team Lead   *alexadevsrm.org*

- Headed the team and managed technical workshops, open-source projects, and sponsor relations.