

Prayas Mitra

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EDUCATION

SRM Institute of Science and Technology | CGPA: 8.89

Bachelor of Technology, Computer Science and Engineering

Air Force School | Percentage: 84

All India Senior School Certificate (AISSCE)

Chennai, Tamil Nadu

Aug. 2024 – May 2028

Jorhat, Assam

Apr. 2023 – May 2024

EXPERIENCE

Software Engineer Intern

Indian Oil Corporation Ltd. (IOCL)

- Developed middleware, web applications and forms using ASP.NET, C#, and MySQL.
- Integrated web services with databases for storage and retrieval, and hosted the same on a LAN using IIS.
- Designed and maintained relational database schemas for enterprise applications, and performed database administration, query optimization, and data management tasks.

May 2026 – Ongoing

Vadodara, Gujarat

Technical Co-Head

GeeksforGeeks Student Chapter, SRMIST

- Led technical initiatives, and full-stack development projects within the organization.
- Coordinated project teams and reviewed contributions across multiple community projects.
- Mentored students in competitive programming, web development, git, and software engineering practices.

Dec. 2025 – Present

Chennai, Tamil Nadu

Software Engineer Intern

SAARC Masts Tech Pvt. Ltd.

- Developed a psychometric assessment platform for candidate evaluation and reporting.
- Built *Mentor Connect*, featuring calendar integration, meeting and event scheduling, chat, and resource sharing.
- Developed full-stack web applications for mentorship, recruitment, and assessment platforms. Designed REST APIs and database models for application data management.

Jun. 2025 – Sep. 2025

Remote

PROJECTS

NLDB Engine | *Python, FastAPI, React, PostgreSQL*

- Designed a HITL validation pipeline to manage concurrent operations and prevent unintended database modifications from unauthorized users.
- Built NLP-driven query generation, role-based authentication, schema exploration, and web-based query execution capabilities, along with having support for multiple different databases.

Jan. 2026 – Apr. 2026

Noctalia Plugin - Pomodoro | *Quickshell, QML, Bash, Shell*

- Developed a *Pomodoro* widget for Noctalia shell using QuickShell, and integrated it with custom shell modules.
- Implemented configurable work and break sessions with persistent state management, and alert notifications. Packaged and distributed the plugin for community use within the Noctalia ecosystem.

Jan. 2026 – Mar. 2026

Folder Color Switcher | *Rust, Bash, Shell*

- Developed an interactive TUI app in Rust for managing Papirus folder icon themes.
- Integrated with the *papirus-folders* package to automate folder color customization across Linux environments.

Jan. 2026 – Feb. 2026

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, HTML/CSS

Frameworks: React.js, Next.js, Node.js, Express.js

Developer Tools: Git/GitHub, Google Cloud Platform, Docker

Libraries: Pandas, NumPy, Matplotlib, SQLAlchemy

Databases: SQL (PostgreSQL, MySQL, MariaDB), NoSQL (MongoDB)

ACHIEVEMENTS

- Selected as a Microsoft Learn Student Ambassador from a highly competitive global applicant pool.
- Ranked among the Top 100 out of 4400+ teams in the GUIDEWIRE DevTrails Hackathon.
- Contributed to open-source software - *Noctalia Shell* by developing and deploying a feature-rich Pomodoro plugin with desktop integration, along with testing and maintenance few other plugins.