

ASHISH SINGH

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GitHub | LinkedIn | Portfolio

EXPERIENCE

Capri Global Capital Limited

Noida

Software Engineer

Apr 2025 - Present

- Developed and maintained the **Internal Loan Origination System (ILOS)** at **Capri Global**, building and enhancing modules for MSME and Home Loan workflows using **Python**, **FastAPI**, and modern backend technologies to support scalable lending operations.
- Architected and delivered the **Green Channel Journey** from scratch, enabling existing customers to avail **top-up loans** through a streamlined digital process, reducing loan processing time from **30–45 days** to **3–4 days** by automating workflows and optimizing the customer onboarding journey.
- Designed and implemented the **Co-Lending module** in partnership with external banks, developing dynamic **Business Rule Engine (BRE)** logic to determine loan eligibility and ensure compliance with partner-specific requirements.

FullStack Developer Intern

Jan 2025 - Apr 2025

- Contributed to the development of a secure **Multi-Factor Authentication (MFA)** system by implementing **TOTP**-based verification using authenticator applications, enhancing user authentication and account security.
- Built an internal **Single Sign-On (SSO)** application from the ground up, enabling centralized authentication and seamless access across organizational applications.

SKILLS

Programming Languages:	Python, JavaScript (ES6), TypeScript, SQL, C++, C, Java
Libraries/Frameworks:	FastAPI, React, Next.js, Node.js, Express.js, Tailwind CSS, SQLAlchemy, Prisma, LangChain
Cloud & DevOps:	Docker, Nginx, CI/CD, Systemd, Linux, VPS Deployment, REST APIs, WebSockets
Databases:	PostgreSQL, MongoDB, SQLite, MySQL, Redis
Tools/Platforms:	Git, GitHub, Linux, Postman, VS Code, Figma, DBeaver, Agile/Scrum

PROJECTS / OPEN-SOURCE

Termynow | Link

Python, React, SQLite, WebSockets

- Termynow** is a remote terminal platform that enables users to securely access and manage their devices from anywhere through a web-based terminal interface.
- Built a persistent agent architecture with automatic reconnection and background execution, providing a seamless and reliable remote access experience.
- Developed the platform using **Python, FastAPI, Next.js, TypeScript, PostgreSQL, Redis, and WebSockets**, leveraging **PTY** and **xterm.js** to deliver real-time terminal interactions.
- Implemented secure device pairing, authentication, and session management mechanisms, and deployed the application using **Docker, Nginx, and systemd** for scalable and reliable operations.

ShareXYLab | Link

Next.js, TypeScript, MongoDB

- ShareXYLab** is a lightweight content-sharing platform that enables users to securely share text, code snippets, and long URLs through unique links.
- Implemented support for password-protected and expirable shares, allowing users to control access and automatically manage content lifecycle.
- Built the application using **Next.js, TypeScript, and MongoDB**, providing a responsive and user-friendly interface for seamless content sharing.
- Deployed the platform on a Linux VPS using **Nginx** and automated production workflows to ensure reliable and scalable access.

EDUCATION

G.L. Bajaj Institute of Technology & Management

Computer Science's

CGPA: 7.11

Greater Noida

Oct 2021 - Sep 2025