

Shivam Mor

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Education

Chandigarh University

May 2025

Bachelor of Engineering in Computer Science (CGPA: 7.10 / 10.00)

- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Intro to CS II (C++), Linear Algebra w/Computational Applications (Python)

Experience

Fyerx Ltd.

Aug 2024 – Jan 2025

Backend Engineer Intern

Remote

- Built robust authentication and authorization flows using *JWT*, *OAuth 2.0*, and *Passport.js*, enhancing platform security.
- Reduced API response time by 35% by optimizing database queries and introducing in-memory caching with *Redis*.
- Worked with technologies such as *Node.js*, *Express*, *MongoDB*, *Docker*, *Git*, and *RESTful APIs* in an agile development environment.

Projects

Secure Bootloader and Minimal OS for IoT | C, Assembly, U-Boot, FreeRTOS, Raspberry Pi

- Developed a custom secure bootloader for Raspberry Pi, supporting cryptographically signed firmware updates.
- Built a minimal real-time operating system with task scheduling, GPIO control, and interrupt handling.
- Integrated rollback mechanism to ensure device recovery on faulty updates.
- Used U-Boot for boot sequence customization and implemented FreeRTOS-based kernel functionality.

MERN-based Task Management App with OAuth and Real-time Collaboration | MongoDB, Express, React, Node.js, Google OAuth, Socket.io

- Developed a full-stack task management platform with user authentication via Google OAuth 2.0 for secure, streamlined login.
- Implemented a RESTful API with Node.js and Express to manage users, projects, and task states in MongoDB.
- Designed an intuitive React frontend with protected routes, role-based access, and session persistence.
- Integrated Socket.io for real-time task updates and collaborative project boards, enhancing team productivity.
- Added notifications, user tagging, and activity logs for end-to-end project lifecycle visibility.

SysMon | Go, Prometheus, gRPC, eBPF, SQLite

- Developed a minimal system monitoring daemon in Go that collects CPU, memory, disk, and network stats using native syscalls and eBPF.
- Exposed metrics over a gRPC API with Prometheus integration for visualization and alerting.
- Implemented pluggable alert rules and incident logging with a lightweight SQLite backend.
- Optimized for low resource usage, making it suitable for embedded or edge devices.

Custom Shopify-Based E-Commerce Platform | Shopify, Liquid, JavaScript, Stripe, SEO, CMS

- Built a complete online store for a client to independently sell products without relying on Amazon.
- Customized Shopify theme using Liquid and JavaScript for enhanced user experience and branding.
- Integrated third-party apps for inventory sync, analytics, invoicing, and multi-gateway payments (Stripe, Razorpay).
- Implemented SEO strategies and performance optimizations, improving product discoverability and sales.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, Go, C++/C, SQL, JAVA

Frameworks/Libraries: React.js, Node.js, Svelte, Express.js, Socket.IO, Redux, Django, Flask, FastAPI

Databases: MongoDB, PostgreSQL, MySQL, SQLite

Tools/Technologies: Git, Docker, JWT, RESTful APIs, React Router, WebSockets, AWS (EC2, S3), Nginx, Redis

Concepts: Full-Stack Web Development, Authentication & Authorization, Real-Time Communication, MVC Architecture, CI/CD, Cloud Deployment, Data Structures & Algorithms

Achievements & Certifications

Full Stack Application Development Capstone Project – Coursera Certification

Developing Front-End Apps with React – Coursera Certification

Django for Everybody – Coursera Certification

Hackfest & Hackon Hackathons – Participated in coding challenges and team-based projects

Discrete Mathematics, Probability & Statistics – NPTEL Certification