

# Amritesh Mishra

Chennai, India | +91 7979789064 | [m.amrit2004@gmail.com](mailto:m.amrit2004@gmail.com)  
[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [TryHackMe](#) | [HackerRank](#)

## Professional Summary

---

Computer Science Engineering student with hands-on experience building full-stack applications and deploying software projects. Passionate about Linux systems, problem solving, and understanding how software and infrastructure work under the hood. Currently exploring cybersecurity fundamentals while strengthening software engineering, networking, and system administration skills through practical projects and self-directed learning.

## Education

---

<b>Excel Engineering College (Affiliated to Anna University)</b> <i>Bachelor of Engineering in Computer Science and Engineering</i>	Expected Graduation: May 2029 CGPA: 8.55
<b>Xavier International Secondary School</b> <i>Higher Secondary Education (Science PCM)</i>	Graduated: 2022 GPA: 3.27 / 4.00
<b>Jana Jyoti Secondary School</b> <i>Secondary Education Examination (SEE)</i>	Graduated: 2020 GPA: 3.60 / 4.00

## Technical Skills

---

**Languages:** Python, Java, JavaScript, TypeScript, HTML5, CSS3  
**Frameworks & Technologies:** Spring Boot, React, Node.js, Express.js  
**Databases:** MongoDB, MySQL  
**Developer Tools:** Git, GitHub  
**Operating Systems:** Linux (Debian)  
**Core Concepts:** REST APIs, Authentication, Database Design, Responsive Web Design  
**Currently Learning:** Linux Internals, Networking, Cybersecurity Fundamentals

## Projects

---

### Library Management System | *Java, Spring Boot, MySQL, HTML, CSS, JavaScript*

- Engineered a full-stack library management application implementing role-based access control (RBAC) to securely separate administrator and user privileges.
- Designed and deployed robust REST APIs to handle backend CRUD operations for book inventory, user accounts, and borrowing workflows.
- Hosted the application on cloud infrastructure to gain practical deployment experience and ensure continuous service availability.

### ShopEase | *React, TypeScript, Node.js, Express.js, MongoDB*

- Developed a scalable eCommerce web platform utilizing a modern React and TypeScript frontend paired with a MongoDB and Node.js backend architecture.
- Integrated Razorpay payment workflows and implemented checkout functionality for order processing.
- Constructed a comprehensive admin dashboard to facilitate real-time product management, order tracking, and inventory telemetry.

### Smart Expense Tracker | *Node.js, Express.js, MongoDB, Chart.js*

- Built a personal finance analytics platform utilizing custom JSON Web Token (JWT) strategies to manage stateless user authentication securely.
- Integrated Chart.js to render interactive data visualizations and analytics dashboards, enabling users to track and categorize dynamic spending patterns.

### Attendance Guardian (Prototype) | *UI/UX Concept & Systems Architecture*

- Designed a conceptual prototype for a modernized student attendance management ecosystem.
- Proposed and mapped technical workflows for QR-code-based attendance tracking and geographic location verification to improve auditing accuracy.
- Drafted structural models for role-based access and automated attendance analytics.

## Linux & Security Exploration

---

- **System Administration:** Utilize Debian Linux as a daily driver, actively practicing command-line troubleshooting, shell environment configuration, and package management.
- **Virtualization Lab:** Architected a personal home lab utilizing hypervisors to deploy and interconnect Debian, Kali Linux, and Windows 11 environments for safe technical experimentation.
- **Network & Security Auditing:** Practice fundamental network mapping and vulnerability assessment techniques utilizing tools such as Nmap and SMB enumeration within localized, controlled environments.

## Certifications

---

- **JL-NAT N5** – Japanese Language Proficiency Certification
- **Duolingo English Test** – Score: 105

## Achievements

---

- Maintained an **8.55 CGPA** in Computer Science while concurrently building independent infrastructure and development projects.
- Engineered, built, and successfully deployed multiple full-stack software applications utilizing diverse technology stacks.
- Built and maintained a personal virtualization lab for learning Linux, networking, and cybersecurity concepts through hands-on experimentation.