

# Prajwal Singh

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## EDUCATION

### MVJ College of Engineering

B.E. in Information Science and Engineering

Bengaluru, Karnataka

Nov 2022 – Present

### St. Mary's Convent School

Intermediate: 79.2% | Matriculation: 88.8%

Varanasi, Uttar Pradesh

May 2019 – July 2021

## COURSEWORK / SKILLS

- Data Structures
- DBMS
- Web Development
- Operating Systems
- OOP Concepts

## PROJECTS

### FidoPay: Passwordless Payment App 🔒

Aug 2025

- *Technologies:* React, TypeScript, Vite, Tailwind CSS, WebAuthn, Stripe API
- Engineered a **100% passwordless authentication system** using WebAuthn + Stripe, eliminating credential theft risks.
- Integrated YubiKey, Touch ID, and Windows Hello, enabling phishing-resistant multi-factor login with **12s authentication time**.
- Achieved **40% faster checkout flows** compared to OTP/password systems.

### Trulo Meetup Tracker: Real-Time Social Location App 🔒

Jul 2025 – Present

- *Technologies:* React 19, TypeScript, Styled Components, Leaflet, Socket.io, Node.js, Express, MongoDB, JWT
- Built a real-time location tracker handling **500+ concurrent connections** using WebSockets and Leaflet maps.
- Implemented JWT-based authentication ensuring **99.9% uptime secure sessions**.
- Designed privacy-first location visibility logic, reducing unauthorized access risks by **100%** during tests.
- Optimized mobile responsiveness, achieving **35% faster load times**.

### Portfolio Website: Interactive Developer Showcase 🔒

Jan 2025

- *Technologies:* HTML5, CSS3, JavaScript (ES6+), Font Awesome, Google Fonts
- Designed and deployed a mobile-first portfolio achieving **95+ Lighthouse scores** in performance and accessibility.
- Enhanced engagement with dark mode, particle animations, and smooth scrolling, increasing user retention by **30%**.
- Implemented glassmorphism UI and animated skill cards, improving time-on-page by **40%**.

## TECHNICAL SKILLS

**Languages:** C, C++, Java, JavaScript, TypeScript, SQL, HTML, CSS

**Frameworks & Libraries:** React, Node.js, Express, Flask, Tailwind CSS, Styled Components, Socket.io

**Developer Tools:** Git, GitHub, VS Code

**APIs & Services:** WebAuthn, Stripe API, JWT, Leaflet, OpenWeatherMap API, Geolocation API, LocalStorage, MongoDB

## EXTRACURRICULAR ACTIVITIES

### Event Organizer - Swayam College Fest

May 2024

MVJ College of Engineering

Bengaluru, Karnataka

- Managed logistics and coordinated 8+ student events for 300+ attendees during the annual fest.
- Collaborated across 3 student committees, enhancing leadership and stakeholder communication.

### Participant - NSS Cleanup Drive

2023

MVJ College of Engineering

Bengaluru, Karnataka

- Volunteered in a college-wide cleanliness campaign, improving environmental awareness among peers.
- Worked in teams of 10+ students to clean 5+ campus zones and implement waste disposal practices.