

OM PATIL

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EDUCATION

Pune Institute of Computer Technology

Bachelor of Engineering in Information Technology (CGPA: 8.88)

Pune, India

Jun 2021 – Jun 2025

Akshara International School

CBSE 12th, Senior School Examination (Percentage: 96.4%)

Pune, India

Jun 2020 – Jun 2021

Akshara International School

CBSE 10th, Secondary School Examination (Percentage: 93.4%)

Pune, India

Jun 2018 – Jun 2019

EXPERIENCE

PICT INC

Full Stack Engineer

Pune, India

Feb 2024 - Apr 2024

- Collaborated with a cross-functional team in an Agile environment to develop an Event Management System using CI/CD practices, facilitating incremental enhancements that enhanced operational efficiency by over 80%.
- Designed and implemented a robust RESTful API integrated with the frontend using the MERN stack, enabling features such as judge allocations, an admin dashboard, and project evaluations. Conducted rigorous testing to minimize production errors and ensure a high-quality codebase with each deployment.
- Technologies: MySQL, Express, React, Node.js, REST APIs, Tailwind CSS.

PROJECTS

SHIELD Password Manager

Live Site

- Engineered a secure password manager using AES-GCM-256 encryption to protect sensitive data, with integrated payment systems for premium services, adhering to the principles of 'Privacy by Design' and 'Trust the Math'.
- Designed a comprehensive zero-knowledge security architecture from scratch, refining the approach based on insights from whitepapers of leading commercial password managers, including 1Password and LastPass.
- Developed a custom authentication and authorization system from scratch, ensuring robust security and access control aligned with the least-privilege principle and strong data protection measures.
- Implemented Redux for global state management and RTK Query for efficient API handling, caching, and performance optimization, resulting in a 30% increase in app responsiveness.
- Integrated the PhonePe payment gateway to enable premium feature access, conducting extensive testing to enhance transaction reliability and improve user satisfaction by 15%.
- Technologies: MongoDB, Express, React, Node.js, AES-GCM-256, PBKDF2, SHA-256, Web Crypto API, Chrome Extension, PhonePe API.

SKYNET Chat Application

GitHub

- Developed a real-time chat application using Flutter, enabling seamless messaging and user interactions across Android and iOS platforms.
- Integrated Firebase for backend support with secure user authentication and real-time data synchronization via Firestore, optimizing cloud storage for images and files. Boosted user engagement by incorporating the Gemini API for seamless text and image interactions.
- Technologies: Flutter, Dart, Firebase, Firestore, Gemini API.

RELEVANT SKILLS

Programming Languages: C++, Python, JavaScript, Typescript, Java

Technologies/Frameworks: Nest.js, Next.js, Express, React, TailwindCSS, Flutter, Firebase, Google Generative AI, AWS, MySQL, MongoDB, Redis, Socket.io, OAuth 2.0, Linux

Developer Tools: VS Code, GitHub, Wireshark, Docker, Postman, MySQL Workbench, MongoDB Compass

Coursework: Data Structures & Algorithms, Systems Design, Computer Networks & Security, Operating Systems, Distributed Systems, Deep Learning, Database Management Systems, Cloud Computing

Soft Skills: Problem-Solving, Ownership, Accountability, Adaptability, Critical Thinking, Collaboration, Self Learner

CERTIFICATIONS

The Web Developer Bootcamp 2024 — Udemy

Certificate

Responsive Web Design — freeCodeCamp

Certificate

LangChain for LLM Application Development — DeepLearning.AI

Certificate