OM PATIL

+91 9049999499 | patilom001@gmail.com | linkedin.com/in/ompatil15/ | github.com/ompatil-15 | ompatil.onrender.com/

EDUCATION

Pune Institute of Computer Technology   **Pune, India**
Bachelor of Engineering in Information Technology (CGPA: 8.88)   *Jun 2021 – Jun 2025*

Akshara International School   **Pune, India**
CBSE 12th, Senior School Examination (Percentage: 96.4%)   *Jun 2020 – Jun 2021*

Akshara International School   **Pune, India**
CBSE 10th, Secondary School Examination (Percentage: 93.4%)   *Jun 2018 – Jun 2019*

EXPERIENCE

Bizmorphic Research   **Pune, India**
Full Stack Engineer Intern   *Nov 2024 - Present*

- Integrated WhatsApp Flows by Meta with a Nest.js backend, Next.js frontend, and Redis for user state management, enabling peak-season lead capture and personalized offers for a seamless customer experience.
- Fixed major bugs in real-time chat communication, resolving duplicate messages and sender-receiver mismatches with a refined Redis key structure and self-consuming events in Redis pub/sub, ensuring reliable agent-visitor interactions.
- Built and delivered a Quick Reply feature in 24 hours, creating shortcuts for frequent text and media messages, boosting agent efficiency and slashing response time for customer interactions.
- Technologies: Nest.js, Next.js, Redis, WebSockets, TypeScript, MongoDB, REST APIs, Webhooks, Git

PROJECTS

SHIELD Password Manager   **Live Site**

- Engineered a secure password manager with AES-GCM-256 encryption and PhonePe payment integration, safeguarding data and enabling premium features while adhering to 'Privacy by Design' principles.
- Architected a zero-knowledge security model from scratch, adapting best practices from 1Password and LastPass whitepapers to ensure uncompromised data protection.
- Optimized state management with Redux and RTK Query, boosting app responsiveness by 30% through efficient API caching and performance tuning.
- Integrated the PhonePe payment gateway to enable premium feature access, conducting extensive testing to enhance transaction reliability.
- Technologies: MongoDB, Express.js, React, Node.js, Web Crypto API, Chrome Extensions, PhonePe API

SKYNET Chat Application   **GitHub**

- Built a real-time chat app with Flutter, enabling seamless messaging and cross-platform compatibility.
- Integrated Firebase for secure authentication and Firestore for real-time data sync, optimizing cloud storage for media while enhancing engagement with Gemini API-powered 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**