PRANAV DALVI

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Education

Pune Institute Of Computer Technology   Jul. 2021 – Jun. 2025
Bachelor of Engineering in Information Technology   *Pune, MH*

Experience

RWTH International Academy Office   Aug. 2025 – Jan. 2026
Research Intern   *Pune, MH*
- Performed **Molecular Dynamics - Finite Element Methods (MD-FEM)** simulations at the **nanoscale** to investigate the **mechanical**, **thermal** and **structural properties** of advanced **nanocomposite materials**.

FinIQ   Jan. 2025 – Feb. 2025
UI/UX Intern   *Pune, MH*
- Developed a **responsive product catalog** for the 5-Star Platform using **React.js**, driving a **25% increase** in mobile user retention.

Career Spectrum   Aug. 2023 – Feb. 2024
Data Science Intern   *Remote*
- Engineered a **multi-layer perceptron** integrated with bespoke **NLP pipelines** for personality inference, enhancing classification accuracy by **30%**.

Amazon Web Services (AWS)   Sep. 2023 – Nov. 2023
AWS Engineer   *Remote*
- Designed and deployed scalable cloud infrastructure solutions using **AWS EC2**, **S3** and **RDS**, improving system reliability and performance by 30%.

Research

- Pranav K. Dalvi, Kirti Y. Digholkar, *RLHF: Reinforcement Learning using Human Feedback for Optimization of ChatGPT*, Grenze International Journal of Engineering and Technology, Vol. 10, No. 2, 2024, 3362-3370

Projects

NexTalk | Live | *MongoDB, Express.js, React.js, Node.js, Socket.io*   Jun. 2024 – Jul. 2024
- Designed a **real-time communication platform** supporting over **100 concurrent users** via **Socket.io** and **React**.
- Implemented secure **JWT-based authentication** and persistent message handling with **MongoDB**.
- Reduced load latency by **30%** through **dynamic client-side rendering** on **Vercel**.

Workly | Live | *MongoDB, Express.js, React.js, Node.js*   Jan. 2024 – Apr. 2024
- Built a scalable **job portal ecosystem** enabling structured listing, smart discovery, and application workflows using the **MERN stack**.
- Enforced hierarchical permissions through **JWT-driven access control** for admins, recruiters, and applicants.
- Accelerated query performance by **40%** using advanced filtering, server-side pagination, and lexical search enhancement.

Clinix | Live | *MongoDB, Express.js, React.js, Node.js*   Jul. 2023 – Oct. 2023
- Launched a **digital appointment platform** with real-time scheduling, supporting seamless booking, rescheduling, and cancellations.
- Enforced strict privacy protocols through **JWT authentication** and **role-specific access** policies.
- Crafted an intuitive UI powered by **calendar-driven interfaces**, increasing user engagement metrics by **40%**.

Technical Skills

Programming Languages: C++, Java, Python, HTML, CSS, JavaScript
Frameworks: Tailwind CSS, React.js, Next.js, Node.js, Express.js
Databases: MySQL, MongoDB
Developer Tools: Git, GitHub, Postman, VS Code, PyCharm, Eclipse

Additional Information

- **PICT CSI Student Branch**: Led the redesign of the PICT CSI Student Branch website as Web Development Head using React.js, boosting performance by 40% and enhancing user experience.