Amrut Pathane

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EDUCATION

- **Indian Institute of Information Technology, Pune (IIIT Pune)**   *2022 - Present*
  Bachelor of Technology in Computer Science Engineering   Pune, India
- **Rotary English Medium School, Khed**   *2020 - 2022*
  Pre-University Education - Central Board of Secondary Education   Khed, India

PROJECTS

- **PrakritiMitra: Full-Stack Developer & Co-Founder**
  Tools: React, Tailwind CSS, Node.js, MongoDB, Socket.io, Razorpay
  - Planned and built an **end-to-end event & NGO management platform** with role-based authentication (JWT + Google OAuth 2.0), real-time updates, and event lifecycle management.
  - Engineered **AI-powered features** using OpenRouter API for intelligent chat assistance.
  - Integrated **Razorpay payments**, sponsorship ecosystem, and real-time chat with Socket.io.
  - Created a responsive UI with React, Tailwind, Framer Motion, plus **Google Maps API** for geolocation.
  - Expanded functionality with a **recurring event system** using FullCalendar to manage 100+ events.
  - Applied **QR-based attendance tracking** with auto-certificates and analytics dashboards.

- *GitHub: PrakritiMitra | Live: prakritimitra.me*

- **Student Project Management System: Project Lead & Developer**
  Tools: Node.js, Express.js, MySQL, EJS, Socket.io, Git, Render
  - Led development of a **project management platform** for students and faculty, replacing manual Excel workflows.
  - Built a **preference-based faculty allocation engine** and **role-based dashboards** with integrated chat.
  - Improved **MySQL query performance**, reducing response time by **40%**.
  - Designed a **panel evaluation module** to assign faculty and streamline offline project reviews.

- *GitHub: Student-Project-Management | Live: spms-live*

PUBLICATIONS

- **Amrut Pathane**, Anurag Kawade, Omkar Dhumal, Mohd Samar Bin Mahtab, Priya Jadhav, Shrikant Salve, **"Usability Evaluation of a Project-Based Learning Management System at IIIT Pune"**. *Accepted for presentation in Workshop on HCI Education and Education for HCI, INTERACT 2025*, Belo Horizonte, Brazil, 09-Sep 2025.

SKILLS

- **Programming Languages:** Java, JavaScript, Python (NumPy, Pandas, scikit-learn), C++
- **Web & Full-Stack Development:** React, Node.js, Express.js, Socket.io, EJS, REST APIs, Tailwind CSS
- **Database Systems:** MongoDB, MySQL, PostgreSQL
- **Tools & Platforms:** Git, GitHub, VS Code, Azure, AWS, Grok Cloud, OpenRouter, Hugging Face, Google Colab, Postman, Vercel, Render, Netlify
- **Computer Science Fundamentals:** Data Structures, Algorithms, Operating Systems, Computer Networks, DBMS, OOP, Machine learning

CERTIFICATIONS

- **Full Stack Web Development** - *The Complete 2024 Web Development Bootcamp*
- **DSA in Java** - *Alpha Plus Course (DSA with Java)*
- **Postman Certification Badge** - *Postman Certified*
- **Ethical Hacking and Penetration Testing** - *Certified by CDAC Noida*

ACHIEVEMENTS

- Achieved **84.79 SUS score** (Excellent) for SPMS from 24 multi-role users.
- Contributed to open-source projects under **GirlScript Summer of Code Extended (GSSoC-Extd) 2024**.
- Ranked **56** and **191** in Naukri.com's Engineers Week Contests (Aptitude DSA).
- Secured **98.27th Percentile** in Mathematics in JEE Mains 2022 (top 2% among **800,000+ candidates**).
- Cleared **JEE Advanced 2022**, a highly competitive national engineering exam.