KSHITIJ PATKI

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SUMMARY

Software Engineer with expertise in full-stack development and backend systems. Passionate about building scalable applications and optimising performance. Proven experience developing IoT-integrated solutions and managing project lifecycles. Strong problem-solver with a detail-oriented approach to writing clean, efficient code

WORK EXPERIENCE

Jr Treasurer , IEEE-VESIT   **Aug 2024 - March 2025**

- Reconciled monthly statements, invoices, and expense accounts, ensuring accuracy and timeliness.
- Managed an annual budget of Rs 1,00,000, tracked expenses, and resolved discrepancies to maintain financial control.
- Advised management on significant expenditures to align with budgetary constraints.
- Prepared treasury reports to support data-driven decision-making.

EDUCATION

Bachelor of Engineering in Electronics and Telecommunication   **Nov 2022 - Present**
Engineering, Mumbai University

SKILLS

Technical Skills:
- **Programming:** Java, Python, C++, JavaScript
- **Web & Mobile Development:** React JS, React Native, CSS, Tailwind CSS
- **IoT & Hardware:** Raspberry Pi, ESP32, Arduino

Soft Skills:
- Financial Analysis │ Budget Management │ Problem-Solving │ Team Collaboration

PROJECTS

IoT-based Smart Water Metering and Billing Application
- Built an ESP32-based system with flow sensors for real-time water monitoring
- Developed cloud-connected dashboard (appwrite) and mobile app (React Native)
- Reduced manual errors by 90% with automated billing and leak alerts

Raspberry Pi-Based Crowd Size Estimation Device
- Created a computer vision system using OpenCV/Python to estimate crowd density
- Designed a real-time dashboard with occupancy alerts and heatmaps
- Achieved 80% accuracy in field tests at campus events

LEADERSHIP & EXTRACURRICULAR

Organizing Team Member │ VES-HACK-IT (Inter-College Hackathon)
VESIT, Mumbai │ FEB 2025
- Co-planned and executed a 200+ participant hackathon, coordinating logistics, judging, and sponsor relations.
- Managed participant onboarding, team allocations, and mentor matching.
- Streamlined event workflows using Google Sheets to ensure smooth execution.
- Secured ₹10,000 in sponsorship from KwikPic through pitch presentations and partnership outreach.