# RICHIE THOMAS

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## EDUCATION

**Bachelor of Engineering — Information Technology**                          **2022 − 2026**
Fr. C. Rodrigues Institute of Technology, Navi Mumbai                          CGPA: 7.55 / 10

## WORK EXPERIENCE

### Research Intern | *IISER, Mohali*                          **Jul 2025 − Dec 2025**
- Designed a CNN architecture for FPGA deployment on PYNQ-Z2 using Vivado HLS, achieving 98% MNIST accuracy.
- Optimized the inference pipeline through loop unrolling and pipelining, increasing throughput by 2.7×.
- Implemented hardware–software integration via AXI/DMA protocols and PYNQ overlays for bitstream deployment.

### Full Stack Web Developer Intern | *Bayside Sports, Bandra*                          **Mar 2025 − Sept 2025**
- Built a sales and lead-management portal enabling structured enquiry submission and boosting lead qualification efficiency by 70%.
- Implemented advanced filtering, search capabilities, and admin dashboards to improve lead visibility and tracking.
- Architected 4+ database schemas for lead and enquiry management; deployed on Laravel Cloud and Linux shared hosting.

### Android Developer Intern | *GetFly Technologies, Sion*                          **Jun 2025 − Jul 2025**
- Engineered a campus ERP mobile application using Flutter with REST API integration for authentication and report generation, serving 1,000+ students and faculty across 8 modules.
- Standardized a unified, scalable project architecture by consolidating multiple codebases, integrating 8+ REST APIs, and optimizing data fetching to reduce sync latency by 40%.

### PHP Developer Intern | *FCRIT, Vashi*                          **Mar 2024 − Apr 2025**
- Extended the internal campus information system by creating 10+ forms, dashboards, and administrative tools based on faculty requirements.
- Oversaw feature enhancements, bug resolution, and deployment of new modules, improving usability for 1,000+ users.

## PROJECTS

### RBTkaFiles — File Sharing Platform                          **2025**
*PHP, MySQL, Supabase S3, Firebase, Linux*
- Built file sharing platform with 5,600+ visits featuring large file upload handling and network resilience safeguards.
- Integrated Supabase S3 for asset storage and Firebase for real-time sync, overcoming shared hosting limitations.
- Implemented security measures including file type validation, size limits, and input sanitization.
- Integrated student marks portal, loading marks details 3x faster than official college website

### FocusFlow — AI-Powered Productivity Application                          **2026**
*Flutter, FastAPI, PostgreSQL, Celery, Redis, OpenRouter*
- Built a AI-powered productivity application, enabling intelligent task, habit, and event management in a unified workspace.
- Implemented FastAPI backend with PostgreSQL and integrated Celery with Redis for scalable data management and asynchronous processing.
- Integrated LLM via OpenRouter to extract tasks, deadlines, and events from unstructured input and generate intelligent recommendations.

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, Java, SQL
**Frontend:** HTML, CSS, React.js, React Native
**Backend:** Node.js, Express, Laravel, PHP, Flask
**Databases:** PostgreSQL, MySQL, MongoDB, Firestore
**DevOps & Tools:** Docker, AWS, Kubernetes, Git, CI/CD, Firebase, Postman

## CO-CURRICULAR AND ACTIVITIES

- Head of Documentation, Computer Society of India (FCRIT, Vashi) — Led documentation for 10+ technical events with 500+ participants; built automated certification system using Python.
- Finalist (Top 5), HackQuinox 2024 Hackathon — CSI FCRIT.
- Top 20%, BuildWithIndia Hackathon by Google India.