

Richie James

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Education

National Institute of Technology, Calicut

2023 – 2027

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.86

Experience

Axis Bank

May 2026 – Jul 2026

IT Intern

- Built a centralized Configuration Management Service enabling version-controlled configuration updates across distributed banking microservices.
- Developed Spring Boot services integrating PostgreSQL, Bitbucket APIs, SSO, RBAC, and audit logging for secure configuration governance.
- Automated validation, pull request creation, approval workflows, and deployment processes through schema-driven configuration management.

Tathva 2025

2025

Tech Head

- Led the architecture, development, and deployment of the official Tathva'25 platform, supporting 8,000+ registrations for NIT Calicut's flagship techno-management festival.
- Designed scalable frontend and backend systems, streamlining registration, event management, and participant onboarding workflows.
- Developed campus navigation and map integration features, enabling real-time venue discovery and seamless event navigation for attendees.

Zteel - Hyperlocal Offer Discovery Platform

2025 – Present

Freelance Backend Developer

- Architected and developed backend services for a location-based offer discovery platform connecting nearby users with retail stores and promotional offers.
- Designed APIs and data models for offer publishing, user claims, QR-code redemption, notifications, and RBAC.
- Integrated Redis caching and Celery-powered asynchronous workflows for notifications, offer lifecycle management, and high-performance request handling.

Projects

NexLearn – Adaptive Learning Platform

Next.js / Django REST Framework / PostgreSQL / Razorpay

- Built a full-stack adaptive learning platform with personalized learning paths, test series, and performance analytics.
- Developed recommendation and assessment engines to identify weak concepts and deliver targeted learning resources.
- Implemented scalable REST APIs, payment processing, authentication, and progress tracking using Django and PostgreSQL.

eXpOS Operating System

OS Design / Kernel Development

- Built a Unix-like educational operating system from scratch, implementing core kernel and file system components.
- Developed process scheduling, memory management, interrupt handling, and system call mechanisms.
- Designed multi-process execution support and kernel-level abstractions, gaining hands-on systems programming experience.

Technical Skills

Languages: C++, Python, JavaScript, SQL

Frameworks: React.js, Next.js, Django REST Framework, Tailwind CSS

Tools: Git, Docker, Linux, PostgreSQL, Redis, Celery

Coursework: Data Structures, Algorithms, DBMS, Operating Systems, Computer Networks