

David Cole

Backend Engineer · DevOps Engineer

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PROFESSIONAL SUMMARY

Backend Engineer and DevOps practitioner with hands-on experience shipping production systems used by real users. Specializes in system architecture, cloud infrastructure, CI/CD automation, real-time systems, and observability. Proven track record across edtech and healthtech — building systems that are reliable, resilient, and built to scale.

EXPERIENCE

Lead Backend Engineer & DevOps

2025 – Present

[CoursePaddy](#) · [coursepaddy.com](#) · E-Learning Platform

- Architected the backend REST API from scratch — course lifecycle management, student enrollment engine, and automated certificate generation
- Integrated payment processing for course purchases and instructor payouts
- Built real-time in-app notifications and messaging using WebSockets for live learner engagement
- Set up New Relic observability — distributed tracing, error alerting, and performance dashboards
- Owned all cloud deployment, Docker containerisation, and CI/CD pipelines via GitHub Actions
- Designed the admin audit system for course approval, rejection, and content governance workflows

Backend Developer

2024-2025

[KeneCare](#) · [kenecare.com](#) · Telemedicine Platform · Team of 5

- Built appointment scheduling and booking APIs — full patient–doctor consultation workflow from request to completion
- Implemented secure medical document sharing with role-based access controls (RBAC) for patient–provider data privacy
- Integrated payment processing for appointment billing and online consultations
- Added Redis caching on high-frequency data queries, significantly improving API response times
- Configured New Relic distributed tracing and system health monitoring across services

Backend Developer

2023-2025

[TDX Global](#) · [tdx-global.com](#) · Event Management Platform · Team of 3

- Built and maintained core backend APIs for studio registration, dancer enrollment (solos & groups), and routine management workflows
- Engineered the live event management system — handling simultaneous multi-judge scoring in real time with conflict-free result aggregation across concurrent performances
- Designed and implemented the payment processing pipeline for event entry fees and studio billing

- Developed the studio and admin management modules — role-based access controls, event configuration, and audit tools for organisers
- Built the routine management system — tracking entries, dance categories, performance schedules, and results per event
- Delivered a bilingual platform (Chinese/English) serving international studios, dancers, and judges

TECHNICAL SKILLS

Backend

Java · Spring Boot · Node.js · Python · C# / ASP.NET

DevOps & Cloud

Docker · AWS · GitHub Actions · CI/CD Pipelines · Nginx · Linux

Databases & Cache

PostgreSQL · MySQL · Redis · MongoDB · MSSQL Server

Observability

New Relic · Distributed Tracing · Performance Monitoring · Alerting

Messaging & Real-time

WebSockets · Apache Kafka · RabbitMQ

Security & Others

JWT · Spring Security · OAuth2 · RBAC · Payment Gateway Integration · REST API Design

EDUCATION

Bachelor of Science — Computer Science & Technology

2024

Sanming University · Fujian, China

References available on request