

David Kavanagh

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Profile

Senior Software Engineer with 8+ years of experience designing, developing, and deploying scalable, cloud-native software solutions. Adept at API development, distributed systems, and enhancing developer workflows. Proven leadership and management in cross-functional teams, delivering impactful projects, and driving technical excellence in dynamic environments.

Core Skills

Languages	Rust, TypeScript, JavaScript, Terraform, Java, Scala
Tools	AWS, Docker, PostgreSQL, MySQL, Redis
Architecture	Microservices, REST APIs, Event-Driven Systems
DevOps	CI/CD, IaC, Monitoring & Logging
Leadership	Agile, Mentorship, Team Collaboration, Design

Experience

- 2024–Present **Lead Engineer, Payments, Evervault**, Dublin, Ireland
- Lead the payments engineering team, driving technical strategy and architectural decisions for payment processing systems.
 - Spearhead development of cloud-native applications on AWS using **Rust** for performance-critical components and **TypeScript** for server-side logic.
 - Design and implement secure, scalable payment processing APIs, ensuring PCI compliance and robust integration with payment providers.
 - Guide cross-team collaboration and mentor engineers while establishing best practices for system reliability and security.
- 2022–2024 **Senior Software Engineer, Apata**, Dublin, Ireland
- Developed next-gen **Authentication and Cardholder Verification Systems** tailored for secure eCommerce transactions.
 - Led migration of the codebase from JavaScript to **TypeScript**, enhancing code maintainability and robustness.
 - Delivered scalable, secure architectures by leveraging **AWS** and optimizing system performance through rigorous testing.
 - Collaborated with cross-functional teams to meet tight deadlines while maintaining technical excellence.
- 2021–2022 **Software Engineer, Salesforce**, Dublin, Ireland
- Built interactive **Slack applications** using **TypeScript**, integrating Salesforce services to enhance user workflows.
 - Developed backend services with **Java/Spring**, ensuring system reliability and high performance.
 - Streamlined CI/CD processes with **Jenkins** and **Terraform**, automating deployments and infrastructure provisioning.
 - Provided mentorship and promoted best practices in coding and architecture.
- 2017–2021 **Software Engineer - Distributed Systems, Workday**, Dublin, Ireland
- Improved reliability and performance of distributed microservices by reducing latency and downtime.
 - Created onboarding materials for **Scala**, accelerating team productivity and knowledge transfer.
 - Resolved critical production issues while maintaining service-level agreements (SLAs) with minimal disruption.
 - Contributed to architectural planning, shaping scalable and maintainable solutions.
- 2016 **Software Development Intern, Qumas/Dassault Systèmes**, Cork, Ireland
- Prototyped solutions for efficient data ingestion and indexing using **Apache Spark** and **Kafka**.
 - Gained hands-on experience in real-time data processing and performance optimization.
 - Developed proof-of-concept systems for handling large-scale data streams with low latency.

Education

- 2025–2025 **Professional Academy Diploma in Leadership and Management, University College Dublin**, Dublin, Ireland
- Completed an intensive leadership development program focused on modern management practices, strategic thinking, and organizational effectiveness.
 - Developed advanced coaching and mentoring skills for team development.
 - Enhanced communication and stakeholder management capabilities.
- 2013–2017 **Bachelor of Science in Computer Science, Munster Technological University**, Cork, Ireland
- Graduated with First-Class Honours, specializing in distributed systems and advanced algorithms.
 - Final Year Project:** Designed an OCR system for retail betting, streamlining data entry and reducing manual workloads.