

# David Kavanagh

## Profile

Senior Software Engineer with 7+ years of experience designing, developing, and deploying scalable, cloud-native software solutions. Adept at API development, distributed systems, and enhancing developer workflows. Proven leadership in cross-functional teams, delivering impactful projects, and driving technical excellence in dynamic environments.

## Core Skills

Languages	Rust, TypeScript, JavaScript, Scala, Java, Terraform
Frameworks	Node.js, Spring, React, Play Framework
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

- 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.

## Interests

- Tech Explore emerging tools and trends on HackerNews & ProductHunt.
- Blog Posting irregularly on davekav.substack.com.
- Sports Fan of football, rugby, MMA, Formula 1, and golf.
- Running Completed Dublin Marathon '22; training for 2025.