Dublin, Ireland
Stamp 4 – no sponsorship required

KUNAL VAIDYA

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PROFESSIONAL SUMMARY

Senior Software Engineer with 8+ years building distributed systems, microservices and cloud platforms at Squarespace, IBM and Mastercard. Built Squarespace's Font Catalog Service from scratch, now hosting 4,500 fonts across ~13M websites, and shipped real-time generative AI features using large language models (LLMs) via the OpenAI and Anthropic APIs. At IBM, migrated fraud-detection microservices to a serverless AWS architecture, cutting operational costs by 30%. Has led and mentored teams of up to 4 developers.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, Groovy, Shell.

Backend & APIs: Spring Boot, Spring Data JPA, microservices, OpenAPI, REST, Maven, PF4J.

Cloud & DevOps: AWS (EC2, S3, Lambda, SNS, SQS, ECS, CloudFront, RDS, DynamoDB), Google Cloud Storage, Docker, Kubernetes, Jenkins, Drone CI, Git.

Data & Search: MongoDB, Cassandra, SQL Server, Elasticsearch, Apache Kafka, Apache Spark, Apache NiFi, Apache Solr.

AI & Observability: OpenAI and Anthropic APIs, LangFuse (prompt management, tracing, alerting), Amplitude.

Identity & Access: IAM (Gluu Server), LDAP, Active Directory, X.509 / CAC authentication.

PROFESSIONAL EXPERIENCE

Senior Software Engineer — **SQUARESPACE, Dublin** — **May 2025 – Present**

- **Font Catalog Service:** Designed and built Squarespace's Font Catalog Service from scratch, a scalable microservice with REST APIs now hosting 4,500 fonts across ~13M websites. Added service-to-service authentication, end-to-end testing, monitoring and alerting, a production SLA and WOFF2 conversion (~30% smaller than WOFF).
- **Squarespace-hosted fonts:** Owned Squarespace-hosted fonts end to end, from system design to production deployment, serving Google Fonts from Squarespace's own infrastructure. This eliminated visitor IP transfers to Google, the GDPR risk behind a 2022 German court ruling.
- **Generative AI:** Built real-time generative AI text generation for Squarespace's site builder, integrating large language models (LLMs) through the OpenAI and Anthropic APIs. Used LangFuse for prompt management, LLM observability and alerting.
- **Variable fonts:** Led variable-font support from design document to production release, extending font processing pipelines, catalog APIs and CSS rendering to support weight axes across customer websites.
- **API modernisation:** Migrated the AI content generation service to OpenAPI contracts on the internal Tyson 3.0 framework, auditing consumers and cutting over 3 dependent services in a distributed system.
- **Incident response:** Resolved multiple critical Sev 1 and Sev 2 incidents in the on-call rotation through root-cause analysis, including a cascading failure across services, fixed with a data-repair job and CI guardrails to prevent recurrence.
- **Tech Stack:** Java, OpenAPI, MongoDB, Google Cloud Storage, Drone CI, LangFuse, OpenAI and Anthropic APIs, Amplitude.

Senior Software Engineer — **IBM, Dublin** — **Jul 2024 – May 2025**

- **Serverless Migration:** Built a migration pipeline moving fraud-detection microservices to a serverless, event-driven architecture on AWS (Lambda, SNS, SQS, S3) with Cassandra, improving scalability and reducing operational costs by 30%.
- **Event-Driven Workflows:** Optimized event-driven workflows in a distributed system on AWS, improving processing time by 25% and strengthening real-time fraud detection across multiple platforms.
- **Security & Reliability:** Remediated multiple severe security vulnerabilities and bugs in core microservices, improving reliability.
- **Tech Stack:** Java 11+, Spring Boot Microservices, Maven, Docker, ElasticSearch, Jenkins, AWS (EC2, S3, SNS, SQS, ECR, CloudWatch).

Software Engineer II — **MASTERCARD, Dublin** — **Jan 2022 – Jun 2024**

- **Data Streaming:** Developed a real-time data streaming and reporting system on Apache Kafka for distributed microservices, enabling efficient data processing and storage for custom reports.
- **Reporting Plugin:** Designed a reusable plugin for report generation that other microservices adopted with no code changes, integrating seamlessly with the reporting service.
- **Production Support:** Debugged and resolved issues in distributed systems across environments. Led technical spikes to shape the implementation of new features.

- **Report Generation:** Designed and implemented a feature enabling seamless report generation and database querying through comprehensive testing and deployment processes.
- **Data Modeling:** Worked with the Product Owner and Architect on database design and data modeling for a dynamic SQL table system using Spring Data JPA, improving query generation and feature support.
- **Mentorship:** Mentored junior developers through code reviews and unit testing (JUnit) in Agile teams.
- **Technology Evaluation:** Contributed to feature design and development while evaluating and integrating new technologies.
- **Tech Stack:** Java 8+, Spring Boot Microservices, Maven, Docker, ElasticSearch, Apache Kafka, Jenkins, AWS (EC2, S3).

Software Engineer **SHAKTI CORPORATION (Freelance)** **Oct 2020 – Oct 2021**

- **IAM Leadership:** Led the identity and access management (IAM) team for a period, designing the system architecture and owning installation, deployment, upgrades and maintenance.
- **Workflow Automation:** Automated cross-team ticketing workflows in JIRA, developing numerous Groovy automation scripts.
- **ML Ticketing:** Worked with a diverse team of developers across the globe on an automated ticketing system using machine learning, which increased processing speed by 10%.

Software Development Engineer **IAM SECVISION PVT LTD.** **Oct 2018 – Oct 2020**

- **Authentication Plugin:** Built X.509/PKI certificate-based authentication (including CAC cards) for Gluu Server v4.1.0 as a Java plugin using PF4J, keeping upward compatibility with existing plugins.
- **Data Pipelines:** Designed ETL data pipelines on Microsoft SSIS and SQL Server for clients, increasing data ingestion speed by 20%.
- **U.S. Expansion:** Worked as part of a diverse international team for a few months, handling the U.S. division. Extended the services provided in India to the U.S., generating average revenue of $8,000 p.a.
- **Team Leadership:** Led a team of 4 developers on several projects, mentoring the team in understanding and implementing new technology.
- **Delivery:** Experienced in all project phases using Waterfall and Agile methodologies.
- **Tech Stack:** Java 8+, Python, Shell, Maven, AWS (EC2, S3, SNS, SQS, ECS).

Software Development Engineer **ZEPO INC.** **Jun 2018 – Aug 2018**

- **Systems Delivery:** Worked across functional development, testing and deployment of systems/infrastructure with project teams to ensure continuous operation of systems.
- **Enterprise Search:** Worked on the CI/CD of an Enterprise Search web application (Unbxd site search engine replica) for an e-commerce platform using the Flask framework and Apache Solr.

Software Engineer, Intern **G.S.E RED** **Jun 2017 – Aug 2017**

- **Expert Marketplace:** Developed a marketplace of domain experts that offers expert advice to users.
- **Booking Search Engine:** Built a web app using PHP and MySQL that acts as a search engine for domain experts, letting users book meetings based on each expert's available time slots.

EDUCATION

M.Sc. Computing **Dublin City University, Dublin** **Oct 2020 – Oct 2021**

- Master of Science in Computing with a GPA of 7.8.

B.E. Computer Eng. **Pune University, Pune (India)** **Aug 2014 – May 2018**

- Bachelor of Engineering in Computer Engineering with a GPA of 7.0.

CERTIFICATIONS

- Professional Data Engineer – Google Cloud Platform
- Developer – AWS

SOCIAL PROFILES

LINKEDIN: https://www.linkedin.com/in/ikunalv/

PORTFOLIO: https://kunxlv.com