

Vedant Jaiswal

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PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS Secrets Manager)

November 2024 - Present

Software Development Engineer

Seattle, WA, USA

Open-Source Client Libraries (Java, Go, Python, .NET, Rust, Node.js, JDBC, CSI Driver Provider):

- Protected **millions of AWS Secrets Manager API calls** against future quantum decryption by leading Post-Quantum TLS rollout across **8 open-source client libraries**, with hybrid X25519MLKEM768 key exchange. [[Blog](#)]
- Upgraded the AWS Secrets Store CSI Driver Provider from **Go SDK v1 to v2** ahead of v1 end-of-support with **zero customer downtime**; preserved IRSA and Pod Identity authentication and modernized error handling to smithy-go typed errors. [[PR](#)]
- Eliminated a **28-minute production outage** at a top-tier AWS customer by generalizing credential cache invalidation in aws-secretsmanager-jdbc across **5 database drivers** instead of hot-fixing the reporting proxy. [[PR](#)]
- Hardened aws-secretsmanager-jdbc against a **critical URL injection vulnerability** enabling **arbitrary file read** via LOAD DATA LOCAL INFILE; reproduced the exploit off-rotation and shipped v2.1.2 to Maven Central. [[PR](#)]

Service Infrastructure:

- Consolidated Amazon-internal secret storage onto AWS Secrets Manager by migrating **~45,000 cryptographic secrets** from a legacy system across multiple AWS regions with **zero customer downtime**, reducing operational and security surface.
- Automated open-source releases** of AWS Secrets Manager's Java libraries to **Maven Central** by moving Sonatype credentials and GPG signing keys onto Secrets Manager with a least-privilege IAM role, eliminating manual credential handling.
- Designed and built the **pre-production validation** service that gates every AWS Secrets Manager Agent release by running **synthetic customer workloads** across multiple partitions and caching variants (in-memory, NitroTPM, SoftHSM).

Forsys Inc

July 2024 - November 2024

Software Engineer

Austin, TX, USA

- Enabled **real-time quote recalculation** across **thousands of product configurations** by building Lightning Web Components (LWCs) and Salesforce Apex logic for a CPQ pricing-adjustment workflow used by enterprise sales teams.
- Streamlined **lead-to-cash workflow** for **enterprise sales teams** by integrating CRM lead capture with the CPQ system, connecting sales, ordering, and invoicing into a single automated pipeline.

Sports Excitement LLC

June 2023 - December 2023

Software Engineering Intern

Kew Gardens, NY, USA

- Built Velosaty, a React and Node.js platform connecting **1,000+ student-athletes** with college coaches, with backend services in Node.js/Python and MySQL/MongoDB data models.
- Set up **CI/CD pipelines** using GitLab, Docker, and Kubernetes for weekly releases and **automated deployment**.

SKILLS

Programming Languages: Java, Go, Python, JavaScript/TypeScript, Rust | **AWS:** Secrets Manager, Lambda, IAM, KMS, CloudFormation, CloudWatch, S3, Kinesis, Redshift, QuickSight | **Infrastructure & Tooling:** Kubernetes, Docker, CDK, CI/CD (GitHub Actions, GitLab), SQL, REST APIs | **Domains:** Distributed systems, Open-source library maintenance, On-call operations

EDUCATION

University of Florida, Gainesville, Florida, USA

August 2022 - May 2024

Master of Science - Computer Science

GPA: 3.53/4.0

Medi-Caps University, Indore, MP, India

August 2018 - May 2022

Bachelor of Technology - Computer Science and Engineering

GPA: 3.81/4.0