

Shane Witbeck

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Software engineer with over twenty years of experience in backend distributed systems and cloud-native microservices. Enjoy working with a diverse and high-performing team, and pragmatic about producing solutions that exceed expectations.

AREAS OF INTEREST

- Developer Experience (DX)
- Cloud computing with strong experience in AWS
- Distributed Systems
- Generative Artificial Intelligence
- Cybersecurity

Work Experience

2024 – 2025

Effectual, Jersey City, New Jersey (Remote)

SOFTWARE ENGINEER

- *Generative AI* – Successfully built and deployed a generative AI application. *Technology Stack*: Python, PostgreSQL (pgvector), Langchain, Amazon Bedrock
- *Application Modernization* – Modernized several legacy applications to modern cloud-native architectures. *Technology Stack*: Java, Spring Boot
- *Apache Airflow* – Migrated Apache Airflow with several integrations to AWS EKS using Helm. *Technology Stack*: Apache Airflow, Helm, AWS RDS (PostgreSQL), Hashicorp Vault, Kubernetes

2015 – 2023

Nike, Beaverton, Oregon (Remote)

PRINCIPAL ENGINEER

- *Enterprise Platform as a Service (EPaaS)* – A cloud-native platform as a service for Nike which enabled teams to build and deploy applications to the cloud with minimal effort. This platform was built on top of AWS and Kubernetes and integrated with several internal services. *Technology Stack*: Kubernetes (AWS EKS), Istio, Golang, OpenAPI, Terraform, GitHub Actions
- *Platform Composition System (PCS)* – An enterprise platform registry that revolutionized platform and API discovery for Nike. Empowered business stakeholders and engineering teams to drive faster innovation and solution composition, ultimately reducing time to market. *Technology Stack*: Kotlin, Spring Boot, DynamoDB, OpenAPI, OpenTelemetry, Terraform, GitHub Actions

- *Service Discovery and Visualization System* – Microservice visualization system which illustrated request and response call patterns and call hierarchies using VPC flow logs, AWS SDKs, and fuzzy logic. This was instrumental in disaster recovery efforts in order to determine dependency graphs for over 700 services. *Technology Stack*: Spring Boot, Kotlin, PostgreSQL, d3.js, AWS VPC logs, AWS CDK, AWS ECS (Fargate)
- *Bot Mitigation System* – A commerce bot mitigation system for Nike which operated at near-real time with a request rate of more than 250K requests per second. This system was highly successful and effective at increasing consumer fairness during product launches by up to 80%. *Technology Stack*: Java, AWS Lambda, AWS Kinesis, AWS DynamoDB, AWS EC2, RabbitMQ, Spring Boot, Redis, Elasticsearch, AWS Cloudformation, Jenkins

2013 – 2015

Jive Software, Portland, Oregon

SENIOR SOFTWARE ENGINEER

- *Lazarus* – Streamlined engineering workflows by creating the Lazarus framework, reducing setup time from 20 minutes to less than a minute. *Technology Stack*: Java, Spring Boot
- *Multi-tenant Search* – Developed new ingress and query APIs for a large, multi-tenant distributed search cluster. *Technology Stack*: Java, Spring Boot, Elasticsearch

2012 – 2013

Cloudsoft Corporation, Edinburgh, Scotland (Remote)

SENIOR SOFTWARE ENGINEER

- *VMware vCloud Test Harness* – Produced a highly scalable cloud test harnesses for public and private clouds including Amazon EC2 clones and VMware vCloud. *Technology Stack*: AWS, Java, Guice, Jenkins
- *Opensource contributions* – Contributed to a number of open source projects including Apache jclouds and Apache Brooklyn. *Technology Stack*: AWS, Java

Skills

AWS	<i>EC2, ECS, EKS, Lambda, DynamoDB, S3, CloudFront, CloudWatch, CloudTrail, IAM, Route53, VPC, ELB, ALB, API Gateway</i>
CI/CD	<i>GitHub Actions, GitLab, Jenkins</i>
Cloud-native	<i>Kubernetes, Docker, Helm, OpenTelemetry</i>
Databases	<i>AWS DynamoDB, Postgres, MySQL, Redis, Elasticsearch</i>
IaaS	<i>Terraform, AWS CloudFormation, AWS CDK</i>
Languages	<i>Rust, Golang, Kotlin, Java, Python, Bash</i>
Messaging	<i>AWS Kinesis, RabbitMQ, NATS</i>
Microservices	<i>REST, OpenAPI/Swagger</i>
Security	<i>Authentication and authorization, JWT, OAuth, OWASP, SSL/TLS, RBAC, ethical hacking</i>
Soft Skills	<i>Excellent written and verbal communication skills. Able to communicate effectively with both technical and non-technical audiences.</i>

Education

Computer Engineering
UNIVERSITY OF CENTRAL FLORIDA