VIKEN SHAUMITRA PARIKH

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years at Microsoft and PayPal leading high-scale distributed systems, global payment infrastructure, and cloud security products. Built and operated services handling $2B+ daily volume, 50K+ QPS, and 10M+ daily requests while owning architecture, reliability, and delivery across backend, cloud, and security domains.

PROFESSIONAL EXPERIENCE

Software Engineer 2 | Microsoft, Seattle & Vancouver **June 2022 – Present**

- Built security analysis tooling for Defender for DevOps that scans 50K+ Azure DevOps/GitHub repositories and pipelines to surface code, secret, dependency, and IaC vulnerabilities, reducing detection time ~40% and increasing remediation throughput ~60% for engineering teams.
- Designed and shipped Azure portal dashboards using React and Knockout that give security and engineering teams a unified code-to-cloud view of DevOps security posture, improving usability and risk visibility and driving ~30% higher feature adoption among 25K+ developers.
- Simplified Defender for DevOps onboarding by redesigning flows to connect Azure DevOps organizations and projects into Defender for Cloud, automating repo/pipeline discovery and cloud-resource mapping, cutting onboarding time ~50% and increasing DevOps coverage and reliability.

Software Engineer 2 | PayPal, San Jose **June 2020 – May 2022**

- Pioneered the architecture and implementation of an intelligent payment authorization system for the AuthRate team, adding instrumentation and controlled experiments that optimized routing and retry logic, improving transaction efficiency and increasing auth success by a few percentage points on high-volume global card traffic.
- Enhanced core payment systems by building new transaction and card-processing features and engineering SDKs for PayPal's tokenization services using Java (Spring Boot), Couchbase, Swagger Codegen, Docker, and GitHub, reducing merchant integration effort and time by ~15–20%.
- Expanded the Issuance & Tokenization platform with features for card and token lifecycle management, improving reliability and flexibility for stored payment instruments across multiple PayPal payment flows.
- Collaborated within cross-functional agile teams to turn business specifications into reliable, observable backend services, while mentoring 4 junior engineers through design, implementation, and delivery of data-driven solutions.

Software Engineer | Decision Theater Network, Arizona **Dec 2018 – May 2020**

- Developed visualization and simulation platform (Python, React) for 50+ research projects, reducing analysis cycles by ~45%.

TECHNICAL SKILLS

Backend Dev: Python, Java, C#, Ruby, Spring Boot, .NET Core, Flask, Django, REST/gRPC APIs, Microservices, SQL, GraphQL, Git
Cloud & Data Platforms: Azure, AWS, GCP, Kubernetes, Docker, Redis, PostgreSQL, MySQL, MongoDB, Couchbase, NoSQL
Frontend & UI: React, Knockout, Angular, JavaScript, TypeScript
Architecture & Systems: System Design, Distributed Systems, Microservices Architecture, High-Performance Services, Horizontal Scaling, Zero-Downtime Deployments, Load Balancing, Auto-Scaling, CI/CD, Infrastructure as Code (Terraform), Observability (Prometheus, Grafana), Database & Query Optimization
Applied ML & Data Science: TensorFlow, PyTorch, scikit-learn, XGBoost, Deep Learning (LSTMs, CNNs), Apache Spark, Feature Engineering, A/B Testing, Pandas, NumPy, Hugging Face, Azure ML, Fast.ai

EDUCATION

Master of Computer Science (Data Science and AI) – Arizona State University, Tempe, AZ **Aug 2018 - May 2020**
Coursework: Statistical Machine Learning, AI, Neural Networks, NLP, Multi-Robot Systems, Distributed Database Systems, Web Mining
Bachelor of Technology, Computer Science – Mumbai University, India **Aug 2014 - May 2018**
Coursework: Cloud Computing, Software Security, Fuzzy Logic, Data Mining, NLP, AI, ML, Computer Simulation Modelling, Algorithms

PROJECTS AND TECHNICAL PUBLICATIONS

Travigate - A Personalized Tourist Guide for Recommendation and Recognition (github/Travigate)

- Led a team of four to build an ML-powered tourist recommendation app using collaborative filtering, TensorFlow-based image recognition, and NLP sentiment analysis, achieving 92% user satisfaction (4.6/5 from 500+ users) and publication in IEEE with 100+ citations; deployed Ionic3/Angular + Flask/MySQL on AWS (EC2, S3) serving 5K+ daily requests.

AWS Auto-Scaling Object Detection (github/AWS-AutoScaling-Object-Detection)

- Architected a fault-tolerant YOLO-based object detection system processing 10K+ images daily with a Python Flask frontend and Java Spring Boot backend on AWS EC2 auto-scaling, using SQS, S3, and health monitoring to achieve ~95% accuracy, sub-2s response time, and ~99.9% uptime.

Secure Banking System (github/SS_BankApp) – Developed a secure banking system using Java Spring Boot and MySQL with authentication, account management, and transaction workflows.