

RUCHIT SINGH

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TECHNICAL SKILLS

Programming and Communication: Golang, Python, gRPC, OAS

Databases and Storage: Postgres, Redis, Cassandra, Azure Data Lake

Messaging and Streaming: Kafka, Pub Sub

DevOps and Infrastructure: Docker, Helm Package Manager, Kubernetes, Terraform, Harness

Monitoring and Observability: Grafana, Prometheus, Datadog

Security and Authentication: JSON Web Tokens, Azure Active Directory, LDAP, Azure Key Vault

WORK EXPERIENCE

ZopSmart

Senior Software Development Engineer

Client: [Kroger Technology & Digital](#)

April 2024 – August 2025

- Technical Lead

Merchandising Experience Domain – Core & Insights Portfolio

- Leading the development of “Merch Hub”, a FIM Platform product with a **\$25M value proposition** projected greater than **\$100M** within next 3 years
- Subject matter Expert and Point of contact resulting in a **20% increase** in cross-functional team efficiency and a **30% reduction** in integration issues
- Architected a horizontal pillar-level solution for Identity Provider-agnostic communication, bridging gap and **reducing integration costs by 40%**
- Spearheaded Domain Driven Architectural design for enabling Versioned timeline events (EHS) service **improving auditing accuracy by 70%** and **50% improvement** in data governance and democratization
- Collaborated with Infrastructure leadership, Merchandising Vice Presidents & Engineering Managers on building shared experience for merchants, business associates and Enterprise Sales planners **optimizing value delivery by 60%**

Software Development Engineer 2

Client: [Kroger Technology & Digital](#)

April 2023 – 2024

- Senior Engineer

Customer Experience Domain

- Engineered an efficient transition roadmap to gRPC, achieving a **35% reduction** in latency and a **50% increase** in data throughput for product teams
- Developed a high-performance Unary gRPC server and client, integrating OAuth2, metrics collectors and advanced structured logging
- Optimized resource utilization, achieving a **98% improvement** in efficiency, an **88% reduction** in heap allocation, and a **99% boost** in performance

Merchandising Domain – Core & Insights Portfolio

- Security Plan Manager cataloging infrastructure and managing asset management and robustness of protocols
- **Enhanced performance and scalability by 65%** by integration with multiple caching strategies and hot-cold storage mechanisms
- Drove the execution of a consolidated Notification Experience with omni channel delivery **increasing merchant engagement by 56%**
- Built libraries and shared components to support 0-1 development for teams **increasing efficiency and productivity by 80%**
- Coordinated with the Corporate & Identity Security Management team, to design On-Premises LDAP and Azure Active Directory pipelines adhering to Zero Trust Architecture

Software Development Engineer 1

Client: [Kroger Technology & Digital](#)

February 2022 – April 2023

- Software Engineer

Items & Assortment Domain

- Formulated Kroger Division & Store lookup service to support the FIM Platform, **improving access management efficiency by 50%**.
- Designed an in-house Single Sign-On (SSO) solution enhancing authorization **accuracy by 40%** and mitigating unauthorized access incidents **by 35%**
- Created a self-service Federated Identity Management (FIM) Platform that streamlined access management, lowering onboarding time for merchants and business associates **by 60%**
- Managed infrastructure setup and continuous integration and delivery, **achieving a 45% reduction** in deployment times and successfully migrating to Harness Next Gen, which **increased release velocity by 30%**

PROJECTS & PUBLICATIONS

• A Dynamic shift in E-voting: Delineating Architecture and Regulations via Blockchain

1. Upcoming chapter publication in the Book – “Recent Trends and Challenges in Law” by Cambridge Scholar Publishing after presentation at International Conference of Law and Emerging Technologies
2. Proposes a large-scale solution harnessing Blockchain and briefly analyzes the conundrum of cryptocurrency-specific legislation for regulating elections with the governance of the Election Commission of India

• bfGo: go(to) open-source library for Bloom Filter

An open-source Golang library that enables app containers to create probabilistic data structures, cutting the need for full database calls

• AI Gym Assistant

Utilized Media Pipe’s Blaze Pose API for real-time pose detection, the model enables precise monitoring of exercises by tracking and computing angles to accurately, abating the risk of injury and poor posture

EDUCATION

University of Edinburgh

Masters of Science in Computer Science

2025 – 2026

P.E.S College of Engineering

Bachelor of Engineering in Computer Science & Engineering

2018 – 2022

Organizations/Awards: Microsoft Tech Associate, Lead of Google Developer Student Club, Winner of Socio-Entrepreneurial Fest, Finalists of National Level Hackathon, Runners up in Inter-Department Football Cup