

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

April 2024 – August 2025

Client: [Kroger Technology & Digital](#)

- **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

April 2023 – 2024

Client: [Kroger Technology & Digital](#)

- **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

February 2022 – April 2023

Client: [Kroger Technology & Digital](#)

- **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

2025 – 2026

Masters of Science in Computer Science

P.E.S College of Engineering

2018 – 2022

Bachelor of Engineering in Computer Science & Engineering

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