Suhird Singh

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🔗 **LinkedIn**: http://www.linkedin.com/in/suhird-singh

| **Portfolio**: https://suhird.github.io/Personal-Blog/about

| **GitHub**: https://github.com/suhird

Professional Summary

Software Engineer with 9+ years of experience in designing, developing, and deploying scalable backend systems and full-stack applications. Proficient in Python, Golang, and Rust with expertise in cloud-native development, CI/CD automation, container orchestration, and microservices architecture. Strong background in DevOps, performance testing, and system optimization.

Core Skills

- Programming Languages: Python, Golang, Rust, Java
- Web Frameworks: Django, Flask, Gin
- Frontend: React, Angular, JavaScript
- Databases: PostgreSQL, MySQL, OracleSQL
- DevOps Tools: Docker, Docker Compose, Kubernetes, Helm, GitLab CI/CD, GitHub Actions, ArgoCD
- Cloud Platforms: AWS, GCP
- Testing & Methodologies: TDD, BDD, GHERKIN, Locust, Playwright
- Version Control: Git, GitHub, GitLab

Professional Experience

GE Vernova, Toronto, Canada

Senior Backend Engineer – DERMS (May 2022 – Present)

- Developed scalable backend APIs for DERMS Grid software using Python and Flask.
- Integrated Kafka for real-time data streaming between modules.
- Optimized CSV and XML parsing by rewriting components in Rust (via PyO3), reducing processing time by 50%.
- Configured high availability and liveness probes using Helm for Kubernetes deployments on AWS.
- Created performance/load tests using Locust, automated via GitHub Workflows.

- Contributed to DER Modelling products deployed for major clients including Southern and ConEd, generating $20M+ in sales.
- Acted as primary DevOps liaison for the team.

FieldEffect, Ottawa, Canada
Full Stack Developer (Jan 2021 – Apr 2022)

- Developed backend APIs and React-based frontend for a network security platform.
- Built new microservices for graph rendering and PDF generation.
- Integrated Twilio, CIRA, and ConnectWise APIs.
- Deployed solutions on Google Cloud Platform.

Royal Bank of Canada, Toronto, Canada
Full Stack Developer Intern (Sep 2019 – Apr 2020)

- Built two internal web applications using Django and Material Design UI.
- Hosted applications on IIS and managed MSSQL database integration.
- Helped RBC reduce software licensing and training costs by up to $50K.

Infosys Ltd., Chandigarh, India
Senior Systems Developer (Oct 2013 – Jul 2018)

- Led feature development for Adidas's customizable product experience including 3D view.
- Developed backend web services using Java and frontend integrations.
- Optimized large data handling through efficient data structures.
- Supported debugging, enhancement, and maintenance of live applications.
- Helped increase Adidas's revenue in the customized Teamwear clothing domain by $20M annually.

Education
Master of Applied Computing – University of Windsor, Ontario, Canada (Sep 2018 – Apr 2020)
GPA: 3.7 | Relevant Courses: Statistical Learning, Deep Learning

Bachelor of Technology, Computer Science – Punjabi University, India (Sep 2009 – May 2013)
Key Subjects: Data Structures, Operating Systems, Advanced Java, Internetworking