

Vidhyasagar Harihara

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SKILLS

PROGRAMMING LANGUAGES

• Scala • Python • Java • Elixir • TypeScript
• Kotlin • Dart • C++ • Go • Swift • Bash

FRAMEWORKS

• Kubernetes • Play • Akka • FastAPI • Spring
• Django • Flask • Express • Ktor
• Android SDK • Swift SDK • Kafka • Phoenix
• Guice • Swing • Keras • Tensorflow

DATABASES

• PostgreSQL • MySQL • Neo4j • SQLite
• Athena • Mongo • Cassandra • Parse

TOOLS

• Terraform • Docker • Kubectrl • Lens
• KOPS • SOPS • CloudFormation • Elastic
• Grafana • Prometheus • Opensearch
• ArgoCD • Nginx • Sbt • Maven • Uv

CLOUD TECHNOLOGIES

• AWS: EKS, S3, EC2, ECR, SQS, RDS, Athena, IAM, CloudWatch
• GCP: GKE, GCS, GKE, Pub/Sub, BigQuery, GCE
• Azure: AKS, AKV, VMSS, WAF, AAD

PROJECTS

FITCENTIVE

SCALA, ELIXIR, FLUTTER, TERRAFORM, KUBERNETES, GCP

Social fitness app aimed at helping you **discover** people with **similar interests**

CLUEIN

FLUTTER

Companion app to help you play the game "Clue". Available on iOS, Android and Web

SPACEJUNK

JAVA, XML, LIBGDX API

Platformer style Android game that allows you escape reality and shoot off into space. Available on iOS and Android

EDUCATION

UNIVERSITY OF WATERLOO ONTARIO, CANADA

HONOURS COMPUTER SCIENCE

September 2013 - May 2018

Patent: Fraud Detection using Graph DBs

EXPERIENCE

OKTA

SENIOR SOFTWARE ENGINEER, RELEASE AND CORESERVICES

May 2024 - Present | Toronto, ON

- Led the design & implementation of a **step registry** framework using **FastAPI**, **Airflow**, and **CircleCI**, which serves as **CI middleware** across different systems
- Devised & engineered a system to perform **mandatory malware scans on all release candidates**, **mitigating supply chain attacks** & ensuring **security compliance**
- Engineered **full-stack self-service workflows** (**React**, **FastAPI**, **Airflow**) to automate common user requests, **reducing turnaround times from days to minutes**
- Engineered a **company-wide policy enforcer** for the enforcement of **short-lived Github tokens**, revoking those past their deadline and compiling reports for review
- **Optimized** to the core Okta release pipeline, **cutting delivery times by 25%**

IMPROVING, OTTAWA

SENIOR CONSULTANT, DEVOPS ENGINEER

May 2022 - May 2024 | Toronto, ON

- Led the **zero-downtime migration** of a 50+ GB/day **logging platform** from Elasticsearch to **OpenSearch** using **Terraform** and **Helm**
- Established **GitOps** workflows with **ArgoCD** to automate **Kubernetes** deployments
- **Secured** multiple internal portals with SSO via **OIDC**, **SAML**, & **LDAP** schemes
- Introduced reusable **Kustomize** packages to streamline multi-env K8s deployments
- Utilized **Terraform** extensively for **Azure** and **AKS** cluster resource management

BILLIE APP

SENIOR FULL STACK ENGINEER

May 2021 - May 2022 | Toronto, ON

- Designed **Scala APIs** for **auth workflows**, **data exports**, and **booking constraints**
- Implemented various **React/React-Native** features like **floor plan avatars**, **data export modals**, & a calendar-like **schedule view**
- **Integrated** application calendars with **Google/Microsoft** APIs to ensure **bidirectional sync** between in-app and external calendars
- Configured **log-based alerts** and published them to **Slack** channels via **webhooks**
- Managed **GCP** infrastructure, **Kubernetes** workloads, **Kafka** clusters, and various **CI/CD** pipelines

ASKUITY INC, A DIVISION OF THE HOME DEPOT

SOFTWARE ENGINEER

July 2019 - May 2021 | Toronto, ON

- Designed and implemented a burstable **data pipeline** using **Kotlin** and **Elixir** on **EKS**, with **SQS** for message brokering
- Architected & implemented a **microservice** for user-created **metric widgets**
- Developed a solution involving **Akka streams** to **precache** frequently accessed APIs, improving response times by **10x**
- Developed **REST/GraphQL** APIs for **CRUD** & **authentication** in **Scala** & **Elixir**
- Established a **staging environment** on **AWS** and configured various **CI/CD** pipelines

CAPITAL ONE

SOFTWARE ENGINEER

May 2017 - Dec 2017, May 2018 - Oct 2018 | Toronto, ON

- Developed a **patented algorithm** for real-time **fraud detection** using **graph databases**, saving an estimated **\$250,000** in its pilot program
- Utilized **Terraform** to manage **AWS** resources, including **Redshift**, **S3**, & **EC2**
- Implemented insolvency workflow solutions via **Kafka** based **Spring microservices**