

Vidhyasagar Harihara

<https://vidxyz.github.io> | Versatile engineer with a knack for learning and delivery | vdhysgr@gmail.com

SKILLS

PROGRAMMING LANGUAGES

- Scala • Elixir • Kotlin • Dart • Java
- Python • C++ • JavaScript • NodeJS
- HTML • CSS • jQuery • Swift • Bash

FRAMEWORKS

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

DATABASES

- PostgreSQL • MySQL • Athena • SQLite3
- Parse • Neo4J • MongoDB • Cassandra

TOOLS

- Terraform • Docker • KOPS • SOPS
- Kubectl • Git • CloudFormation • Elastic
- Grafana • Prometheus • Opensearch
- ArgoCD • Nginx • HAProxy

CLOUD TECHNOLOGIES

- AWS: S3, EC2, ECR, SQS, RDS, Athena, IAM, CloudWatch
- GCP: GCR, 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 both iOS and Android

EDUCATION

UNIVERSITY OF WATERLOO ONTARIO, CANADA

HONOURS COMPUTER SCIENCE

September 2013 - May 2018

Patent: Fraud Detection using Graph DBs

EXPERIENCE

IMPROVING, OTTAWA

SENIOR CONSULTANT, DEVOPS ENGINEER

May 2022 - Present | Toronto, ON

- Implemented **GitOps (CD)** with **ArgoCD** to configure **self-healing k8s manifests**
- Developed single sign-on **SSO** solutions for Prometheus, AlertManager, Opensearch, and Nexus using **OIDC, SAML and LDAP** with **Azure AD** integration
- Led the **migration** of distributed logging solution from Elasticsearch to **Opensearch** to handle **daily** ingestion of **50+ GBs** of logs using **Helm** charts and **Terraform**
- Introduced **kustomize** packages to streamline deployments to various environments
- Audited routes and designed rules to **secure** VPC networks using **Azure Firewall**
- Utilized **Terraform** for **Azure** resource management and collaborated with operations teams for scheduled **production releases**

BILLIE APP

SENIOR FULL STACK ENGINEER

May 2021 - May 2022 | Toronto, ON

- Designed **Scala** based APIs for key features, including exporting **user login data**, **reconfiguring** SSO providers & applying **constraints & schedules** to booking spaces
- Implemented features in **react/react-native** including rendering **user avatars** on building **floorplans**, creating modals for **data exports** as well as integrating booking schedules into a **calendar-like** view
- **Integrated** in-app calendar info with user's **email** calendar using Microsoft/Google **Calendar APIs** to ensure **synchronization** of changes
- Configured log based **alerts** and published them to **Slack** channels via web hooks for easy **visibility** into cluster services
- Managed **GCP infrastructure**, including updating **SSL Certificates**, maintaining **kubernetes manifests**, configuring **Kafka** clusters and keeping **CI/CD pipelines** up to date

ASKUITY INC, A DIVISION OF THE HOME DEPOT

SOFTWARE ENGINEER

July 2019 - May 2021 | Toronto, ON

- Designed and implemented a burstable **data-pipeline** on **EKS** with **Kotlin** and **Elixir** to operate on large POS datasets using **SQS** as the message broker
- Architected & implemented a database **schema** & **microservice** enabling users to create widgets displaying a variety of metrics
- Implemented an innovative solution using **Akka** streams to **precache** common user requests resulting in a **10x improvement** in response times
- Developed **REST/GraphQL** APIs for data retrieval and authentication workflows in **Scala** & **Elixir**
- Established a staging environment on **AWS** for the development teams and configured **CI/CD** pipelines for automated **deployments** to **Kubernetes** clusters

CAPITAL ONE BANK, CANADA BRANCH

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 approximately **\$250,000** in potential fraud losses
- Released **version 1.3** of the Capital One **Android** Beta app loaded with new features built from the ground up on the **play store** to an audience of over a **1000** people
- Utilized various **AWS technologies** like **Redshift, S3, & EC2**, by deploying infrastructure with **Terraform**
- Implemented insolvency workflow solutions via **Kafka** based **Spring microservices**