# Vidhyasagar Harihara

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## **SKILLS**

## PROGRAMMING LANGUAGES

- Scala Elixir Kotlin Dart Java
- Python C++ JavaScript Node.JS
- HTML CSS ¡Query Swift Bash

## **FRAMEWORKS**

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

### **DATABASES**

- PostgreSQL MySQL Athena SQLite3
- Parse Neo4J MongoDB

### TOOLS

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

## **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

## **EXPERIENCF**

## IMPROVING, OTTAWA

## **DEVOPS ENGINEER**

May 2022 - Present | Toronto, ON

- Enabled  $GitOps \; \mbox{CD}$  using ArgoCD to configure  $self\mbox{-}healing$  kubernetes manifests
- Implemented **OIDC**, **SAML** and **LDAP** based **SSO** for Prometheus, AlertManager, Opensearch and Nexus using **Azure AD** as the identity proviuder
- Successfully **migrated** the team's distributed **logging solution** to ingest GBs of logs on a daily basis from Elasticsearch to **Opensearch** using **Helm** charts and **Terraform**
- Created shared **kustomize** packages to avoid code duplication across various repos
- Identified routes and designed rules to secure network access via Azure Firewall
- Worked extensively with Terraform to manage various Azure resources and coordinated with operations teams to perform scheduled production releases

### BILLIE APP

### 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
- Worked on variety of features in react/react-native such as rendering user avatars
  on building floorplans, creating modals for various data exports as well as
  integrating booking schedules into a calendar-like view
- Worked on **integrating** in-app calendar info with user's **email** calendar using Microsoft/Google **Calendar APIs** to propagate changes and maintain **sync**
- Configured log based alerts and published them to Slack channels via web hooks for easy visibility into cluster services
- Worked extensively on maintaining and upgrading the GCP infrastructure, including updating SSL Certificates, maintaining kubernetes manifests, configuring Kafka clusters as well as well as 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 reliable and efficient **data-pipeline** in **Kotlin** and **Elixir** to perform **ETL** on large amounts of POS data
- Architected & implemented a database **schema** & **microservice** to allow users to create widgets with filters showing a variety of metrics
- Developed a novel solution to precache common user requests using Akka streams to speed up response times by 10x
- Built **REST/GraphQL** APIs to retrieve data as well as perform authentication workflows in **Scala** & **Elixir**
- Created a staging environment on AWS for the development teams and set up **CI/CD** pipelines for automatic **deployment** of stable code to **kubernetes** clusters

## CAPITAL ONE BANK, CANADA BRANCH

## SOFTWARE ENGINEER

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

- Saved roughly \$250,000 in potential fraud losses by developing a patented algorithm for real-time fraud detection using graph databases
- 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
- Gained immense experience working with a variety of **AWS technologies**, including **Redshift**, **S3**, & **EC2**, through the deployment of infrastructure using **Terraform**
- Worked on **Kafka** based **Spring microservice** to add insolvency specific features