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 • Node.JS
- 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
- Enabled **GitOps** CD using **ArgoCD** to configure **self-healing kubernetes manifests**
- Implemented **OIDC**, **SAML** and **LDAP** based **SSO** for Prometheus, AlertManager, Opensearch and Nexus using **Azure AD** as the identity provider
- 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
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
- 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