RAHUL VIRAJ BRAHMAL
Full Stack Developer

Employment History

Software Engineer at SaltPay
February 2020 — Present

- Lead development of an onboarding product that reduced the average onboarding time of a merchant from 20 days to 10 minutes
  - Developed APIs using Elixir, Phoenix and Absinthe (GraphQL) that interacted with our acquiring partner, terminal provider and merchant data providers to onboard merchant's into our ecosystem
  - Integrated Iceland and UK Companies House APIs to aggregate merchant data into a centralized data warehouse
  - Developed a web-mobile application using React for sales agents to onboard merchants on their phones in Iceland
  - Abstracted SQL data model to support future launch countries, such as Portugal, Slovakia and Hungary
  - Successfully onboarded more than 4000 merchants onto our ecosystem since August 2020
- Lead transition from a monolithic application to a microservice-oriented architecture
  - Pioneered development of our first terminal-management-system using Elixir Phoenix. This interacted with our partner terminal provider and terminal authentication switch to provide a centralized internal API for all services needing to communicate with the terminal
  - Architected and developed terminal integrations for multiple value added services, such as loyalty and EPOS integrations
- Developed and managed the company's self-hosted internal and external authentication service using Keycloak and Kubernetes
  - Developed multiple solutions for authentication using Keycloak and ORY, choosing Keycloak for its broader open-source community
  - Developed custom modules in Keycloak to facilitate API Key and Device Code Authorization flows
  - Current authentication infrastructure services over 2000 Daily Active users
- Developed and maintained companies technical infrastructure using KOPS Kubernetes for AWS
  - Created CI/CD flows using CircleCI, Docker and AWS ECR in order to automatically build, publish and deploy the latest build versions to our staging and production clusters automatically
  - Integrated additional services such as Metabase into the cluster to allow for the sales team to readily access internal metrics

Software Engineer at Yoyo Wallet
February 2020 — May 2020

- Developed an automated onboarding API in Django to allow for self-service merchant onboarding
- Created integrations with partners such as Xero and checkout.com to minimize contact with internal onboarding staff
- Created an API to interact with Yoyo's internal loyalty engine, allowing for loyalty creation to happen programmatically

Intern Software Engineer at Grab (Ride-Hailing)
June 2018 - August 2018

- Expanded the query support of a customer-facing chatbot from 10-30 requests using Dialogflow
- Implemented a suggested question feature in Javascript
- Implemented a cron-job to back-up the chatbot's conversations every 15 minutes and store it in an S3 bucket
- Wrote integration tests to ensure that chatbot behavior did not adversely affect shared resources on the companies support page
- Reduced the number of support queries to customer service by over 50%

Libraries

Webull Elixir Client
Technologies used: Elixir

- Developed an Elixir library for interacting with Webull's Web API, to allow for getting and executing trades programmatically
- Built custom GenServers and abstractions over the API to allow for ease of use
- Documented and published package to hex.pm for the community and actively maintaining library

Details

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Education

Georgia Institute of Technology
Atlanta, Georgia, USA

Bachelors of Science in Computer Science
Graduated December 2019

Threads: Artificial Intelligence, Machine Learning, Databases, Networking, Information Security

Back-End Development

Elixir (Phoenix, Absinthe)
Python (Starlette, FastAPI, Django, Flask)
Go (gorilla/mux)
Rust
Java
SQL (PostgreSQL, MySQL)

Front-End Development

ReactJS (Hooks + Class-Based, Redux, Redux Saga, Apollo, Relay)
React Native
Vanilla HTML/CSS

Tools / Frameworks

Kubernetes (KOPS, EKS)
Docker
NGINX
Keycloak
GraphQL
RabbitMQ
Katka

Work Authorization

Tier 1 Visa Holder in UK (no sponsorship required)

Malaysian Citizen