Luke Doughty

Software Developer

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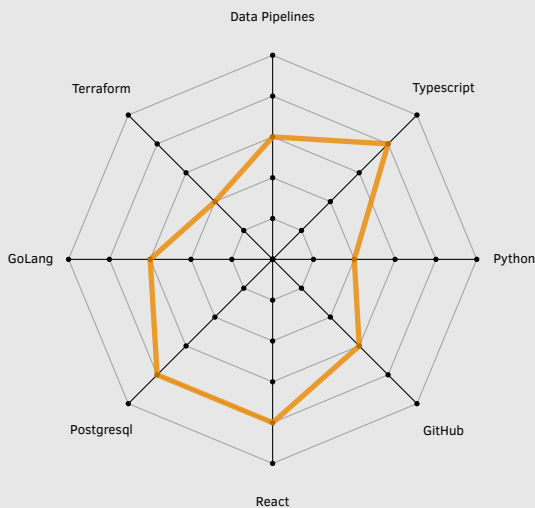
Skills

Overview

Figure 1: Language Proficiency

Tech Stacks Used

$0\ LOC \longrightarrow 10000\ LOC$

Typesript • React • MobX • MUI

Javascript • NodeJS • Axios

ThreeJS • R3F • R3F Drei • R3F Rapier

GoLang • Protobuf • YAML

PostgreSQL

Technical Experience

December 2022 - Present	**Software Developer**	**Vivacity Labs**

- Worked within an **agile** team, planning work through technical refinement sessions & met deadlines agreed with a product manager.
- Delivered projects for a **SaaS** company working within the transport industry.
- Used both **React & MobX** stateful libraries data from a **PostgreSQL** database to internal users in real time.
- Created new data entry modals with **MUI4/MUI5**
- Created new database Migrations & matching **Protobuf Message Schemas**
- Created **GoRoutines** to listen to Protobuf messages in **Kafka** & send **CRUD** messages to our DB.
- Performed both Unit & Functional testing of these GoRoutines to prevent incorrect data insertion in a production environment
- Used **PixiJS** to add new video drawing features to an internal play back web-app.
- Created a new API endpoints in a closed-source **Modular Message Streaming Framework** service, allowing internal web-apps to access new data from our database with JWT authentication
- Managed deployments of code, in both a development & production environment in a **Terraform** managed **Kubernetes cluster**
- Created a new staging environment in our cluster, using up **Vault** authentication to manage permissions

April 2021 - March 2023	**Technical Operations Level 2 Engineer**	**Vivacity Labs**

- Management of **AWS IoT** based sensor estate over 3000 devices large, using **UNIX shell scripting** & Docker container management.
- IoT device debugging in UNIX shells & **Docker containers**
- Data analysis on output from IoT devices to check validity.
- Completed a passion Project to increase productivity by creating API calls to our Google Sheets with Python.
- Created **TKinter** GUI tool to send batched images over an internal API, abstracting complexity of CURL requests from team.
- Remote support of on-site team for installation & repairs of IoT devices.

Non-Technical Experience

2020 - 2021	**Labourer**	**Belmont Building Company**
2016 - 2018	**Leisure Centre Manager & Lifeguard**	**Eric Liddell Sports Centre**
July 2016	**Charity Worker**	**The Mwandi Project, Zambia**

Education

2017 - 2020	**BEng Electronic and Information** (2:1)	**Kings College London**

About Me

- On the weekends I like to work on my own cars & motorbikes
- I enjoy making personal projects in ThreeJS & R3F
- I like to travel and go to the gym as much as possible