



Hussein Al Abry

Lead Software Engineer

Hussein understands how to use **technology** to solve **real world problems**. He has a passion for **leading** people and teams to reach their **full potential**.

Experience

Lead Software Engineer

Rihal / Muscat, Oman

July 2019 - Present (2 years 7 months)

- Joined as the 7th employee. Founded and now leading the engineering division that has grown to 25+ software engineers, machine learning engineers and product designers.
- Established robust engineering culture of mentorship, code reviews, reproducible builds, CI/CD and focus on user experience.
- Worked with public and private sector organisations to determine their requirements and oversaw the product planning, solution architecture and engineering project flow from start to finish.
- Automated deployment and monitoring of the company's self-hosted tools such as the container registry and wiki on managed Kubernetes instance.
- Configured Github Actions to run on auto-scaling self-hosted runners on Kubernetes. Reduced cloud cost and decreased time of CI workflows.
- Introduced and was heavily involved in Go & React development. Lead developer for hydrocarbon forecasting and document search engine products.

Logistics Automation Software Engineer

DAI / Manchester, UK

June 2017 - July 2019 (2 years 1 month)

- Inherited and refactored testing framework code. Rewrote the CPython selenium wrapper. After refactor the e2e tests were running 2.5x faster.
- Tech lead on desktop application built in Java for simulating material handling equipment in automated warehouses.
- Involved in design and implementation of custom RPC framework in C and Java.

Skills

- Go
- Python
- Java
- Typescript / Javascript
- HTML / CSS
- C
- PostgreSQL
- Redis
- Git
- Linux
- Kubernetes
- nginx
- Docker
- React
- FastAPI
- Terraform
- OIDC/OAuth 2.0
- OpenTelemetry

Education

- BSc Computer Science
University of Salford, UK
- International Security Camp
Hogeschool van Amsterdam, NL
- BSc Computer Science
Hofstra University, USA

Contact

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Projects

AI Memory Tutor

E-learning web application that aims to help user's memorize passages of text. It uses **speech-text alignment** to show a cursor moving over the text in real time to help train the user.

The application then records the user's voice and sends it to the **Golang** backend to be transcribed using real-time **Automated Speech Recognition**. The user's performance is reported back on the web interface written in **React**.

Android Password Store

Was the co-maintainer of password management **Android** app that has 4.6 average rating and 10k+ installs on the play store. Android wrapper for the password-store cli application that **encrypts** files with **GPG** while keeping track of changes in a **Git** repository.

Weather Sensor

Led development of IoT **Node.JS** application that receives data via **MQTT** protocol from weather sensors connect to a **Raspberry Pi**. The data was streamed to a web application written in vanilla JS and presented visually with D3.js. Project was built using **test driven development**.

HarrasBlock

Created Google Chrome extension that extracts the content of a webpage and sends it to a **Flask API** that uses **natural language processing** to alert the user when they are navigating to a page that contains harassing content.

Leadership & Achievements

- Organizer of "OmanGo" Golang community
2019 - Present
- Prize for exceptional academic achievement Salford CSSE
2016
- Vice president of Salford Computing Society
2015-2017
- Student representative Salford CSSE
2015-2019
- Awarded full scholarship to Hofstra University
As student athlete, 2013
- Finalist UK Memory Championships
Under 16 category, 2010