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

Senior Software Engineer

Impactive / Remote, US

Apr 2022 - Nov 2022 (8 months)

- Full stack development on the Rails backend and React frontend.
- Optimized long running report generating SQL queries. Running time reduced from over 5 hours to under 20 minutes.
- Significantly improved performance of most time consuming endpoint by adding lazy loading. Reduced repsonse times and database load.
- Integrated with Stripe API for billing and subscriptions to automate payment collection.
- Audited codebase for security issues. Created report with issues and recommendations.

Lead Software Engineer

Rihal / Muscat, Oman

July 2019 - Apr 2022 (2 years 9 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.

Skills

- Go
- Python
- Java
- Typescript / Javascript
- HTML / CSS
- C
- Ruby/Rails
- 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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  email

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  Mobile

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.

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.

— 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