Ali Hejazi

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Full Stack Software Engineer looking for new opportunities as **start-up I work for is running out of runway**.

Experience:

Urban Data Collective – Full-Stack Developer   **Present**

- **Full stack** development in **React**, **JavaScript**, **Node**, **Express**, **PostgreSQL**, and **Prisma** in a start-up environment.
- Responsible for the development of new **API endpoints** on the **backend** for new features and the maintenance of existing ones, some of which consumed by **GraphQl** resolvers.
- Integration with **external APIs** and external platforms like **ArcGis** and **IOT Central**.
- Improved page load speed **from 15 seconds to ~1 second** and **fixed database timeout** issues by fixing large amounts of **technical debt**: reducing payload size, and by fixing naive **GraphQl** $n + 1$ implementation.
- Managing and configuring **AWS**, **CloudWatch**, **ECS**, **Lambda Functions**, **RDS**, **S3**, and **Athena**.
- **Terraform** and **Terragrunt** for **Infrastructure-as-code** (**IaC**)
- Collaborating with **UI/UX** expert and **reskinning** our **React** front-end web application based on **Figma** designs.
- Actively contributed to implementing **feature roadmap** with countless full stack features.
- Leading the development of their **regression e2e testing** suite using **Cypress**.
- Carried out regular **bug fixes** and implemented **unit tests**, whilst also doing monthly library **maintenance updates**.

The Big Give – Software Engineer   **April 2021 – January 2023**

- Working as the *only* full-time Software Engineer to build the Big Give platform raising **£30+ million** annually.
- Building the Big Give's new website using **Angular** and custom **web components** built with **Stencil JS** and **Storybook**.
- Publishing our own custom **npm package** (@biggive/components-angular) which was installed into our **Angular web application** to implement our bespoke **web components**.
- Building **php microservices** using the **Slim framework**, deployed onto **AWS**.
- Built custom **Stripe** onboarding portal & Gift Aid form which **1000s** of charities have onboarded with.
- Deep and extensive experience across the **full Salesforce stack** to continuously develop new features. Heavy work involving **Apex**, **REST APIs**, Lightning Web Components (**LWC**), VisualForce (**VF**), HTML, JS, and CSS.
- Heavy experience with Apex triggers, **SOQL**, Apex debugger, unit tests, CI/CD e.g. Copado Essentials, Flows, Process Builder, Workflows, Field Level Security, custom objects and custom fields, Batch Apex, Scheduled Jobs, Anonymous Apex, Code Coverage analysis, and Apex unit tests etc.
- Migrating old Workflows into new **Flow** equivalents, creating new **Process Builder** processes to automate business processes (e.g. campaign status updates), **low-code / no-code solutions**.
- Working with **AWS** including CloudFront, CloudWatch, S3 Buckets, API Gateway, and Lambda Functions.
- Working in an **agile scrum** team with bi-weekly sprints, **daily stand-ups**, backlogs, and sprint planning.
- Successfully fixing live production mission-critical issues immediately and under high pressure.
- Monitoring production **AWS alarms**, investigating error logs and finding root causes of issues.
- Developing **regression tests** using **Jest**, **TestingBot**, and **CircleCI** for continuous integration/development (**CI/CD**).

Amadeus – Software Development Engineer Graduate   **September 2020 – March 2021**

- Developing fixes using object-oriented **C++** for critical failures affecting airlines with their customer management.
- Migration of old Perl tests to modern **Python** tests to ensure code validity and simulate backend services using receptors.
- Work involves **SSH** into remote **Linux** boxes and using **Linux** command line & **very heavy debugging investigations.**
- Reviewed **weekly loads** of commits to disapprove commits which have caused code breakages, and approve the rest.
- **Jenkins** for **continuous integration**, **Bitbucket**/**Git** for source control, **Jira** for ticketing.

FICO – Software Engineering, Specialist (Intern)   **July 2019 – September 2019**

- Single-handedly developed an **artificial intelligence/machine learning chatbot** to be deployed alongside FICO's Debt Manager product, using an **agile** software development process reporting to my supervisor.
- Backend was written in **Python** with the **Rasa** framework for the chatbot, consisting of multiple **REST POST/GET** requests and **ETL** processes, using the **Postman** REST client for testing.
- Built final user interface with **React**, **ES6 JavaScript**, **JSX**, and **CSS**, and had a **responsive**, modern, and clean design.
- Chatbot's use is to allow end-consumers to **check their account balance(s) & contact information, make payments, and dispute or escalate matters**, reducing a big labour cost to FICO's corporation clients.

Imagine Software – Data Operations Intern   **June 2018 – September 2018 & December 2018 – January 2019**

- Enhanced Imagine's Latex-generating JavaScript PDF **Report Librar**y to implement new table styling and stacked bar charts functionality for added style and flexibility when visualising data via graphs, amongst other bug fixes.

- Implemented **ETL** process by extracting data from Reuters **REST API** & transforming it into the desired **JSON** format.

Software Projects:

MasterQ Web Application – (React, TypeScript, Node, Express, PostgreSQL, Prisma)   May 2023 - Present

- Building ed-tech platform to help students at every academic level succeed, starting with GCSEs. The product offers a question bank with 1000s of MCQs for students to practice with.
- Developed full stack web application with **React**, **TypeScript**, **Node**, **Express**, **PostgreSQL**, and **Prisma Client**.
- Leading the architecture of the database with entity relation (**ER**) diagrams to ensure maximum scalability, flexibility, and no data redundancy.

London Rooms Web Application – React, Node, Express, mongoDB (MERN Stack)   2020 – 2021

- Built a **full stack web application** allowing users to see and filter through the rooms available for rent in London.
- Implemented **JWT authentication** using Passport library on the server side in **Express.js**.
- Built an Express.js **REST API** and a fully functional **CRUD** administrator **dashboard** working in real time, allowing the administrator to create, read, update, and delete rooms from the site and from **mongoDB**.
- Used **Firebase** for **cloud** image storing so the image URLs are saved in **mongoDB**.
- See demonstration here **https://tinyurl.com/y55o842k**

Education:

University of Birmingham – BSc. Computer Science – 1st Class Graduate

Modules included: Data Structures & Algorithms, Software Workshop, Natural Language Processing, Intelligent Data Analysis, Software Engineering I & II, Introductory Databases, C/C++, and many more.

References (from LinkedIn):

Milan Perovic – Engineering Lead at Urban Data Collective   2023 – Present

"I'm excited to recommend Ali as an amazing developer. I worked closely with Ali and was always impressed by how hardworking, smart, and independent he is. Ali is dedicated to his work and always goes the extra mile. He's really good at handling difficult tasks with enthusiasm and commitment, standing out from the rest. What's really special about Ali is that he can take charge and complete tasks on his own without needing constant help. His proactive approach and ability to work independently make him a standout professional.

Apart from his tech skills, Ali is a great team player. He communicates well, works smoothly with others, and is always ready to help his colleagues. His positive attitude and willingness to share what he knows make a big difference to the team's success.

Ali is a fantastic addition to any team, and I highly recommend him. His mix of technical know-how, initiative, and teamwork make him a valuable asset for any project or company."

Alex Day – Managing Director at Big Give   2021 – 2023

"Ali was a delight to work with. He has fantastic technical competence as well as a brilliant character. He always approached his work with a great attitude and diligence. He would be an asset to any team and I wouldn't hesitate to hire him in future."

Noel Light-Hilary – Tech Lead at Big Give   2021 – 2023

"Ali has been an absolute pleasure to work with. He has embraced tasks in both familiar and new technologies in this role, across a wide range of platform features we've built together – always with refreshing enthusiasm, clarity and patience.

Highly dedicated, a quick learner and an excellent communicator, he has been instrumental in the continued growth and improvement of Big Give's match funding platform through 2021 and 2022, helping thousands of charities to multiply supporters' generosity and do important work."

Ilker Ozturk – Head of Data at Imagine Software   2018

"Reporting is a very important and challenging aspect of portfolio and risk management practices. During his internship at Imagine Software, Ali helped us build a state of art reporting tool which allows our clients generate their regulatory and risk reports with a single click. Despite the lack of previous experience in the area, Ali picked up the requirements quickly and contributed significantly to the project with his technical skills. I highly recommend Ali to any employer and I think he will be a great computer scientist."

Jack Goss – Head of Consulting, EMEA at Imagine Software   2018

"Imagine's pdf reporting engine was significantly improved by Ali's work."