

Arvin Shafiei

Software Engineer
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EXPERIENCE

Housekeeping | August 2024 – September 2024

Rufflets, St Andrews

In my role in housekeeping, our team actively promoted the idea of building a more inclusive and friendly workplace. We initiated team-building events, such as work nights out, which helped strengthen our bond and encouraged open communication. These efforts not only boosted morale but also created a more positive and collaborative atmosphere across the department.

Software Engineer | April 2023 – Jun 2024

Neirfeno, Dundee

Collaborating closely in a small team with senior engineers along with a designer and marketer to develop mobile and web applications, along with managing and leading the development of highly data centric application which received a grant from Scottish Enterprise.

EDUCATION

BSc Hons – Computer Science | 2022 - 2026

University of Dundee, UK

Started at 16 years old. Part of Volleyball (DUVC) and Computing (DUCS) societies.

SKILLS

Languages: English & Persian

Volunteering: Computing Science Class Representative, University of Dundee.

PROJECTS

EETIN – TypeScript / JavaScript, ELK Stack, Python & Linux

I worked as the lead developer on a £160,000 project which received a £100,000 grant from Scottish Enterprise, the project aimed to predict the activity of businesses based on a complex range of factors for the hospitality sector. This system used JavaScript with Puppeteer for scraping large amounts of data which was then processed which was then stored on Elasticsearch, Logstash, and Kibana stack self-hosted and managed by myself on a CentOS server and held over 5,000,000 records of data. This data was then processed into grouped statistics through a TypeScript RestAPI backend and presented with a web frontend made in native HTML, CSS, and JavaScript proxied through Nginx. I was also responsible for graphing this data in Python to make further predictions and improvements to the system.

Google API ORM – TypeScript

I worked alongside two other developers on a £100,000 contract to create the initial ORM interface for GCalendar using Google APIs in a test-driven development environment along with SOLID principles as well as utilizing Jest to create unit/integration tests to ensure reliability. The system used TypeScript to interact and retrieve data from the calendars to improve scheduling and predict required calendar entries for our client.

Snappy Staff – React Native & Firebase

This app was a shift/rota system for businesses in the hospitality sector. I was responsible for the creation of a feature for paid users which only allowed staff to clock-in for their shift if they were within a radius of the business selected by the business owner. This required me to create new front-end components to allow the shift workers to clock-in along with changes to the sign-up process, working alongside a designer. These changes required me to adjust and deploy cloud functions to firebase to support storing and changing the businesses' location.

Enriched – Springboot / React js

This application used a Springboot Java backend with a Postgres database, following CQRS and HATEOAS principles to provide a secure and scalable API developed using test-driven development to ensure reliability. The front end is written in

React, MaterialUI and ReactQuery. I was responsible for implementing key backend features and tests for these features such as user account deletion. Along with implementing the frontend for the sign-up section process along with implementing and quality of life features such as ensuring if the user went back a page on the sign-up process the text fields cached their values to prevent them having to re-enter them.

GifTay – React Native & Firebase

For this mobile application I was mainly developing on the frontend and make changes to UI components to make them more user accessible as well working on general bug fixes such ensuring that businesses with no number-in-front of their address to be selectable while not making them claim the whole street as their business.