Petra Rossa

Junior Software Engineer

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Experience

Software Developer @ CCS, Computershare
NOV 2020 - JUN 2022 // Bristol, UK

- **Mastered Perl** - company's core programming language
- **Developed multiple data processing modules** and integrated them into existing frameworks
- Worked as part of a **multi-disciplinary team**, interacting with **external stakeholders** while **onboarding new customers**
- Set up **large-scale data processing pipelines** for various data sources (CSV, XML, SQL)
- Took charge of **end-to-end testing** - both **integration** testing and **unit testing** of components - with 100% coverage
- Wrote **documentation** and hand-over documents for other teams within the company
- Updated **UI for internal software** and produced microsites for company news using **React**

Portfolio

NASA Web App - Full Stack   // Code: GitHub

- **Full stack application** with a **React frontend** and a **NodeJS backend**
- Includes **internal API** for React to connect with and requests to an **external API** getting data of SpaceX launches
- Data is persisted in **MongoDB** , CI using **GitHub Actions**
- Deployed on AWS using Docker

React E-commerce Website   // Code: GitHub

- **React web application** for a mock e-commerce website, with **Redux** for state management
- Uses **Firebase** for hosting the app data in the cloud
- Implements both **OAuth** and custom login
- Deployed on Netlify

Weather Forecast App   // Code: GitHub

- **NodeJS web app** consumes external APIs to retrieve geo coordinates and weather forecast for any given location
- Utilises **Jest & Supertest** for testing, runs in **Docker** container

Text Analysis App - Full Stack   // Code: GitHub

- Web app with **React frontend** and **Python Flask backend**
- Performs **text analysis on input** text and displays the results
- Flask backend code on GitHub

Skills

Programming Languages
JavaScript, Python, Perl, HTML & CSS, Sass, SQL, NoSQL (MongoDB)

Libraries & Frameworks
React, Redux, NodeJS, Express, Jest, jQuery, Handlebars
Flask, FastAPI, GraphQL

Tools & Platforms
Docker, GitHub, Heroku, Firebase

Education

MSc Applied Clinical Psychology
@ University of Bath
2018 - 2019 // Bath, UK

Graduated **MSc with merit**

BSc Psychology
@ University of Hull
2015 - 2018 // Hull, UK

Graduated with **First-Class honours**

Certificates

Complete NodeJS Developer | 2023
ZTM, Udemy

NodeJS, React, REST APIs, GraphQL, MongoDB, Docker, Jest

Complete React Developer | 2023
ZTM, Udemy

React, Redux, Hooks, GraphQL, Firebase, OAuth, MongoDB

Front End Development | 2022
FreeCodeCamp

Responsive Web Design, Algorithms and Data Structures, Front End Libraries

Python for Research | 2020
edX, Harvard University

Pandas, Numpy, Scikit-learn, Data analysis tools and statistical analysis

Introduction to Python | 2019
edX, Harvard University

Python, Object Oriented Programming