HARRY REDMAN

Software Engineer

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SUMMARY

A Computer Science graduate with a range of personal and group programming projects. Highly motivated and resourceful individual who is keen to take on new challenges. Looking for an entry-level software engineering role that will allow me to develop my programming skills, while also offering the opportunity to work as part of a team.

SKILLS

Languages: Java, PostgreSQL, Python, JavaScript, HTML, C++, C.

Frameworks: Spring, Node.js, Vue.js, Nuxt.js, React.js, Mocha, Chai, JUnit.

Tools: Git, Github, Docker, Trello, Jira, Postman, Azure.

EDUCATION

2020 - 2023 **BSc (Hons) Computing Science – First-class Honours (1st)** **The University of East Anglia**
Key Modules: Data Structures and Algorithms (84.16%), Developing Secure Software (72.8%), Data Science (89.5%), Machine Learning (80.5%), Computing Project (87.68%) and Programming 2 (75.40%).
Awards: The Douglas Lewin Memorial Prize and BSc Prize for best individual performance by a BSc Computing science student.

2018 - 2020 **A-level** **Derby College**
Computer Science (B), Geography (B), Sports and Exercise Science (Distinction *)

2013 - 2018 **GCSE** **Merrill Academy**
Achieved 9 GCSEs at grades 5-8, including Mathematics (7) and English (6)

PROJECTS

Python, SkTime, SKlearn, Numpy, Pandas

Exercise classification using time series classification github.com/hazzaRR/ExerciseClassification
• Developed time series classification models for final year individual project at university. Which could predict various common gym exercises from accelerometer and gyroscope data from a smartphone with 99.9% accuracy.
• Utilised Python with the SKtime, Sci-kit learn, NumPy, and Pandas libraries for data processing and training machine learning models

Java, Spring Boot, Vue.js, PostgreSQL, Azure

Full-stack personal blog app (blog.harryredman.com) github.com/hazzaRR/PersonalBlogSpring
• Developed a full-stack blog application to post about my interests and experiences using Spring Boot, Vue.js and PostgreSQL for the database.
• Implemented full CRUD functionality and JWT user authentication using asymmetric keys in Spring Security
• Deployed PostgreSQL database using Azure PostgreSQL servers to store blog posts and users and integrated Azure Blob Storage for media file storage
• Deployed the project using Azure services. The backend with Azure App Service and the frontend to Azure static web apps using a CI/CD pipeline with GitHub Actions.

Android Studio Java, Python, Flask, NumPy

Real-time exercise classification app github.com/hazzaRR/AndroidExerciseDetectionApp
• Extended project of my individual university project to create a real-time gym exercise detection app that was developed using Android Studio Java to utilise the accelerometer and gyroscope sensors in an Android smartphone
• Integrated a Python Flask server to run the trained machine learning model enabling real-time predictions within the app through a REST API.

Javascript, React.js, Express.js, PostgreSQL

Secure Blog site github.com/hazzaRR/bloggerino_source
• Built a secure blog site for a third-year university project that protected against online vulnerabilities such as cross-site scripting, cross-site request forgery, SQL injection, account enumeration, session hijacking, and brute force attacks.
• Utilised technologies including Node JS/Express JS, React, Postgres SQL, Git, GitHub, Trello.
• Used Mocha and Chai for testing the application.
• Followed an Agile approach for planning and building the blog site

Java, Python, Nuxt.js, Azure, PostgreSQL, Linux

Derby County REST API (derby-county.harryredman.com) **github.com/hazzaRR/DerbyCountySpring**
- Developed Python scripts for web-scraping football-related data, capable of scraping fixtures and historical match results for any specified football team and any new Derby County results.
- Data scraping is automated using a Cron Job schedule running on a Raspberry PI to ensure all data is the latest.
- Created a Spring Boot REST API for retrieving, updating, deleting and creating match or fixture data. With a Nuxt.js frontend for displaying and interacting with data.
- Deployed the project using Azure services.

Nuxt.js, Express.js, PostgreSQL

Appointment booking System **github.com/hazzaRR/NuxtBookingSystem**
- Created an appointment booking system for a local business
- Developed using Node.js for the Express backend, Nuxt.js for the frontend and PostgreSQL for the database.
- Containerised the application using Docker and Docker-compose for efficient deployment and management

EXPERIENCE

8/2022 – 8/2023 **Store Athlete** **Nike**
- The global sports retail brand that sells athletic wear to aspiring athletes. My main responsibilities were operating tills, providing service to customers and restocking the shop floor.
  `Team work  /  Communication  /  Problem Solving`

9/2022 – 1/2023 **Associate Tutor** **UEA Computing Sciences**
- Helping programming 2 labs for second-year undergraduate students by teaching programming languages.
- Interpersonal and communication skills: guiding students who are stuck on lab questions.
  `C  /  C++  /  Java`

12/2018 – 8/2022 **Bar Associate** **Wetherspoon**
- A pub chain that operates across the UK and Ireland that serves drink and food. In this role, my main responsibilities were: taking orders, operating tills, making drink orders, cleaning the back bar and front of house and taking out food to tables.
  `Team work  /  Communication  /  Problem Solving`

9/2018 – 12/2018 **Waiter** **Steliana's & Sapho's Taverna**
- A small independent Greek restaurant that served traditional Greek food. In this role, my main responsibilities were: waiting on tables, taking food and drink orders, serving drinks, taking out food orders to tables, setting tables and taking payments.
  `Team work  /  Communication`

HOBBIES & INTERESTS

- Keeping Active - I play football on a regular basis, in addition to going to the gym a few times a week and running as I prepare for the 2024 London Marathon.

- Computers/technology - in my own time, I have built and fixed my own computers, in addition to developing my own programs. My interest in computing has led me to want to pursue a career in the industry.

- Sports - I like to watch professional sports, especially football and Formula 1.