

David Rosental

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EDUCATION

University of Warwick

Coventry, UK

Computer Science, BSc

Sep. 2023 – Present

- First Year studied Web Development Technologies and Computer Security – 1st Class Honours (83%)

Hill's Road Sixth Form College

Cambridge, UK

A Levels

Sep. 2021 – Jun. 2023

- Maths, Further Maths, Computer Science, Physics, Extended Project Qualification – 4A* + A.
- Ranked within Top 50 scores for AQA A Level Computer Science nationally.
- Tutored physics and maths to other students throughout first year and second year respectively.

EXPERIENCE

Junior Software Developer (*Part-Time*)

Mar. 2021 – Sep. 2023

Green Pyrus Ltd

Remote (Cambridge, UK)

- Developed a suite of bespoke utility software to automate menial tasks to improve productivity. Created an intuitive UI with PyQt5 to make use of the library.
- Designed a database to hold the company's inventory data and currency exchange rates (as a cache), making up time for senior employees due to the API's timeout used APIs request limit.
- Implemented a REST API using ASP.NET Core to interact with the data through a standard interface. Also created a corresponding frontend with React and Typescript to visualise the data in a simple, tabular form and make edits to inventory data simple.
- Created an AWS Lambda to automatically update the database when there was a change to inventory Excel files in an Amazon S3 bucket, to create an alternative interface to access inventory data.

PROJECTS

Personal Portfolio | *TypeScript, HTML, CSS, React*

Mar. 2024 – Jun. 2024

- Static website to showcase my existing projects and certifications using React. (davidrosental.co.uk)

Blog Application | *TypeScript, React, Firebase, Go, REST, S3, MongoDB*

Jul. 2024 – Present

- Full-stack application with React for the frontend and a RESTful backend that uses Amazon S3 and MongoDB to store blog posts with Firebase for authentication.

COURSES

Cloud Fundamentals: AWS Services for C# Developers | *AWS, C#*

- Practical introduction to .NET AWSSDK for a variety of AWS services including S3, Lambda, SNS, SQS, DynamoDB and Secrets Manager.

REST APIs in .NET | *C#, ASP.NET Core, REST, Docker*

- Full course on all generally relevant aspects of REST API design including basic and advanced CRUD techniques (versioning, HATEOAS, Swagger, caching, health checks), authentication/authorisation, and user-specific actions.
- Also contained .NET-specific features including SDK generation using the Refit package, and converting from Controller-based APIs to Minimal APIs.
- Used to implement full-featured REST API template: github.com/LittleAksMax/aspnet-rest-template.

Docker for Developers | *Docker*

- Explanation and demonstration of fundamental Docker commands, Dockerfile syntax, utilising Compose.
- Docker networks (and how they relate to Compose), Docker bind mounts/volumes/tmpfs, and image security with using non-root users and image scanning with `docker scout`.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, Go, SQL (Postgres + MySQL), JavaScript, TypeScript, HTML/CSS

Frameworks: ASP.NET Core, React, jQuery, Express.js, Flask, Gin-Gonic

Databases: MySQL, MariaDb, Postgres, MongoDB

Developer Tools: Git, Docker, Postman