James Alport

Full Stack Web Developer

07840795751
Horsham, RH13 5SZ
jrmalport@gmail.com

EXPERIENCE

Theorem Solutions Inc, Tamworth — *Software Developer*

March 2012 - November 2015

- Built from the start CADViewer visualisation software using VSG OpenInventor libraries in C++.
- Integrated CADViewer into a unified C#.NET Project Manager UI in collaboration with other team members.
- Developed initial stages of CADViewer streamed data web viewer using Node.js.
- Maintained and improved Java and C/C++ legacy code and improved integration with MySQL Database.

EDUCATION

University of Birmingham — *MSc Computer Science*

September 2010 - December 2011

Passed with Merit.

University of Birmingham — *BSc Physics*

September 2007 - August 2010

2:2 with Honours

CodeCademy

- JavaScript Unit Testing – April 2024
- Fundamentals of Cybersecurity – February 2023
- Build Web Apps with ASP.NET – April 2024

PROJECTS

BestBeforeStart Recipe Project – React Web Application

April 2024 – December 2024

- React Application Built from the ground up to learn and improve Web Application development skills.
- UI design using CSS and HTML.

SKILLS

React, CSS and HTML in Web App and Web site design.

Node.js used in RESTful API and communication with MySQL.

Unit testing using Jest and Vitest.

Microsoft Azure deployment of Web Apps and Database .

UI Design with HTML/CSS/React, Java Swing and WPF.

SQL Database design with MySQL and PostgreSQL.

C# and ASP.NET with MVC design pattern using Razor Pages

Graphics and Physics modelling with OpenGL.

Non–Relational Database design with MongoDB.

Java, C and C++ used with building and maintaining libraries and applications.

- Backend API development using node.js and MySQL Database and RESTful architecture principles.
- Full vitest unit testing and collaboration with QA Analyst.
- Rebuilt to deploy on Microsoft Azure Static Web App server using Azure Functions and Azure MySQL server.

Misac Music Keyboard Tutorialisation Project - React Web Application

December 2024-January 2025

- React Application intended to improve understanding of music theory and improve music notation read speed.
- UI design with CSS and HTML.
- Unit testing with Jest.
- Deployment of sound libraries.

Northern Wu Tai-Chi Website - React Web Site

January 2024

- Frontend React website designed to give a landing page and information about Northern Wu Tai-Chi - a personal hobby.
- Frontend web site design using React, CSS and HTML
- Unit testing with Jest.
- Development time estimation breakdown for improved analytics.

Hobbies and Interests

- Tai-Chi
  - Member of the Inner School of the Northern Wu Style
  - Former Secretary and Treasurer of the University of Birmingham Tai-Chi Society.
  - Former class instructor and administrator.
- Circus Skills
  - Teaching of staff-spinning, juggling, poi and diabolo at both University of Birmingham Circus Society and paid workshops
  - Staff-spinning, juggling and poi at both paid and charity performances in front of substantial crowds.
- Bouldering
  - Use of problem solving skills and technical improvements up to V4 level.
- Running
  - Ran Royal Parks Half Marathon in 2018 (2hr 12m) and Birmingham Half Marathon in 2019 (1hr 35m)