**James Percival**

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GitHub: https://github.com/JPDevAcc

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**Profile**

I’m an enthusiastic computer-science graduate with a first class honours degree from the University of Sheffield, and a long-time interest in programming, with recent experience in web development. I’m looking for a full-stack or backend-development role where I can work either independently or alongside team members who share my focus on quality and creative problem-solving.

**Skills**

* Strong JavaScript / TypeScript skills, developed over the past two years during volunteer work
* Proficient with HTML5, CSS3 / SASS, and the Bulma and Bootstrap CSS libraries
* Good knowledge of Vue, React, and Svelte, and some experience with Angular8
* Extensive PHP experience and familiarity with CodeIgniter 4, gained over several years
* Strong understanding of relational databases, with several years of experience using MySQL
* Experience of Node / Express and MongoDB from development-course MERN-projects
* Experience of version control systems, including Git, Mercurial, and Subversion
* Experience of mobile development (iOS), gained during academic projects
* Collaborative, agile and test-driven development skills, gained primarily at university
* Good troubleshooting abilities and attention to documentation / code-commenting requirements
* Understanding of common software security issues and best practice (e.g. OWASP Top 10)
* Other experience includes Python (+Django), Java, and C++

**Selected Portfolio Projects**

JavaScript OOP Text Adventure Game (individual-project)

Portfolio page: https://jpdevacc.github.io/PortfolioSite/projects/project\_advgame.html

A game in the style of classic command-driven interactive-fiction. Makes heavy use of OOP classes to represent game entities such as rooms, items, and containers.

JavaScript Cipher Project (individual-project)

Portfolio page: https://jpdevacc.github.io/PortfolioSite/projects/project\_cipher.html

A sandbox where users can chain together simple ciphers and encode or decode text.

Fitness-App (group-project)

Portfolio page: https://jpdevacc.github.io/PortfolioSite/projects/project\_fitness.html

A 4-week project chosen by our three-member team which consisted of building a fitness-app using the full MERN-stack, with features such as work-out and dietary recommendations along with social posts and messaging. An agile-development approach was applied, with the use of tools including user-stories, weekly sprints, and daily stand-ups.

**Experience**

**Website Manager** – **November 2023 – Ongoing (voluntary position, part time / remote working)**

Sheffield Visually Impaired Walking Group - http://www.sviwg.co.uk/

##### **Responsibilities:**

* Site redesign (modularisation via classic ASP, responsive layout, optimising for accessibility)
* Ongoing content-updates / maintenance

**Web Developer** – **September 2021 – Ongoing (voluntary position, part time / remote working)**

Providr Ltd - [https://providr.uk](https://providr.uk/)

##### **Responsibilities:**

* Co-development of an online-ordering application using the Vue web framework
* Porting of Vue2 JavaScript to the Svelte framework in TypeScript with feature improvements
* Assisting with application back-end development in PHP (endpoints / data models)
* Development of a vendor portal in PHP, with heavy use of JavaScript on the front-end
* Assisting with the main front-facing website (written in Vue3)
* Helping to onboard team members with the systems and technologies in use by the company
* Recently involved in the development of an internal messaging system using Vue3 and PHP/CI4
* Currently working on a Python-based utility for semi-automated restaurant menu digitisation

##### **Software / technologies employed:**

* Vue (with Jest for testing), SvelteKit
* HTML5, JavaScript ES9 / TypeScript, SASS / Bulma CSS framework
* Apache, PHP 8 + CodeIgniter 4, MariaDB
* Python 3.x (with Tesseract OCR and OpenCV libraries)
* Mercurial

**Administrative Assistant** – **March 2007 – June 2007 (3 month temporary position)**

Keetons Removals, Sheffield

##### **Responsibilities:** Receptionist duties and creation of a computerised mailing list.

**Customer Service Representative** – July 2004 – May **2005**

Norwich Union (Aviva), Sheffield

##### **Responsibilities:** Data entry of pension policy application forms, quality-checking the work of colleagues, and requesting missing information from clients.

**Education**

**Web Development Bootcamp – January 2023 – April 2023**

The Developer Academy - https://learning.thedeveloperacademy.com

Front / back-end development course with collaborative working, covering primarily the MERN stack:

* Git, HTML & CSS / SASS (+ Bootstrap), JavaScript, Jest, React, Node / Express, MongoDB

**Full Stack Web Development (Online Course) – January 2021 – September 2021**

Uplatz Training

Beginner / intermediate-level course covering the following technologies:

* HTML5, CSS3, JavaScript, ReactJS, Angular8, Django, MongoDB, Java8

**OpenLearn Courses – 2020 – 2021**

Open University - https://www.open.edu/openlearn/profiles/zv488717/achievements

* Discovering computer networks, approaches to software development

MCOMP (Hons) **Class One**, **Computer Science** – September 2009 – June 2013

University of Sheffield

**Notable achievements:**

* Contributed to a PHP-based business website in agile-development “Software Hut” module, winning the IBM UK Laboratories prize for “best Computer Science 2nd year group project”
* Awarded the BCS Eliot Chiat Prize for student with ‘best overall performance’ in second year
* A share in the Douglas Lewin Memorial Prize for ‘best examination performance’ in fourth year
* First-class standard on dissertation project featuring audio processing and machine-vision

**Other notable modules:**

* Java Programming, Web and Internet Technology, Software Development for Mobile Devices
* Testing and Verification in Safety-Critical Systems, Computer Security and Forensics

**Engineering Foundation Year** – September 2008 – June 2009

University of Sheffield

* One-year intensive course comparable to three A-levels
* Achieved final grades above 70% (Mathematics and Physics) and 80% (Chemistry)

**Mature Access to HE Computing,** September 2007 – June 2008

Sheffield College

* Modules in programming (Pascal and C++), project lifecycle stages, organisational theory, mathematics (AS-equivalent), networks, text processing, spreadsheets, and databases
* First person to be awarded all available credits for module completion at level 3
* Nominated for an Adult Learners’ Week Award