James Percival

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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 several years of 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 ability in JavaScript / TypeScript
* Proficient with HTML5, CSS3 / SASS, and the Bulma and Bootstrap CSS libraries
* Good knowledge of Vue, React, and Svelte, and experience of Angular 8
* Extensive PHP experience with use of CodeIgniter 4 and familiarity with Laravel 10
* Strong understanding of relational databases, with several years of MySQL use
* Experience of Node / Express and MongoDB gained during a web-development bootcamp
* Experience of version control, including Git, Mercurial, and Subversion
* Experience of mobile development (iOS), gained during academic projects
* Collaborative, agile and test-driven development
* Good troubleshooting abilities and understanding of security issues (e.g. OWASP Top 10)
* Other experience includes Python (+ Django), Java, and C++
* Experience of collaborative working, group code reviews, and quality-checking
* Keen eye for detail

**Selected Portfolio Projects (2023 Web Development Bootcamp)**

JavaScript OOP Text Adventure Game (individual-project)

A text-driven interactive-fiction game, making heavy use of object-orientation for representing game entities. This was a rewarding project which proved to be a good opportunity to practice object-oriented programming. While students were given some example code to use as a basis on this assignment, I chose to write my own solution for maximum flexibility.

JavaScript Cipher Project (individual-project)

A sandbox allowing users to chain together simple ciphers to encode or decode text. This was originally a group project to implement the simple Caesar substitution cipher, but as an extended exercise, I developed my own enhanced version in order to experiment with something a little more interesting.

Fitness-App (group-project)

This 4-week project, chosen by our team, consisted of building a fitness-app with features such as work-out and dietary recommendations along with social posts and messaging. The MERN stack was used alongside an agile-development approach with user-stories, sprints and daily stand-ups. Unlike the previous bootcamp projects, time constraints were a significant issue here, and as such we had to take care with prioritising work, especially following the loss of a team member after the first day of project planning.

Experience

Website Manager | November 2023 – Ongoing (voluntary position)

Sheffield Visually Impaired Walking Group

* Undertook site redesign, including modularisation and responsive layout
* Gained good skills in optimising and testing for accessibility
* Responsible for ongoing content-updates / maintenance

Web Developer | September 2021 – Ongoing (voluntary position)

Providr Ltd

* Co-development of an online-ordering application using the Vue and Svelte web frameworks
* 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 public 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

* Receptionist duties
* Responsible for creation of a computerised mailing list

Customer Service Representative | July 2004 – May 2005

Norwich Union (Aviva), Sheffield

##### Data entry of pension policy application forms

##### Requesting missing information from clients

##### Also responsible for quality-checking the work of colleagues

**Education**

**Cybersecurity Bootcamp (Sheffield Career Dev Centre) | September 2024 – October 2024**

* Covered Cisco cyber-security and networking material, in addition to building practical skills

**Beginning Laravel 10 - From Novice to Professional (Udemy) | November 2023 – May 2024**

**Web Development Bootcamp (The Developer Academy) | January 2023 – April 2023**

* Front / back-end course with collaborative working and agile development
* Git, HTML / CSS / SASS / Bootstrap, JavaScript / Jest / React, Node / Express, MongoDB

**Full Stack Web Development (Uplatz Training) | January 2021 – September 2021**

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

**OpenLearn Courses | 2020 – 2021**

* Discovering computer networks
* Approaches to software development

MCOMP (Hons) Class One, Computer Science | September 2008 – June 2013

University of Sheffield

* Achieved final grades between 70% and 80% in foundation year (Mathematics, Chemistry, Physics)
* 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

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 to be awarded all level 3 credits and nominated for an Adult Learners’ Week Award

**References available on request**