

c.dufficy@gmail.com colettedufficy.github.io github.com/ColetteDufficy linkedin.com/in/ColetteDufficy in

PERSONAL PROFILE

I am a highly personable and enthusiastic career changer who thrives on problem solving and collaboration, with a focus on building full stack web applications using JavaScript, React, Express and using RESTful API methods.

After a successful career as a graphic designer and project manager, I realised I needed a change. My choice of coding and software development was influenced by childhood nostalgia of tinkering with oscilloscopes and circuit boards, along with an love of STEM subjects and puzzle-solving.

During my time as an Junior Instructor at CodeClan, I found genuine satisfaction in melding my own learning with student learning. I embraced the challenge of researching and conveying complex concepts into bite-sized, original and understandable lessons. My ability to help students grow their self-confidence was vital for their success. Every day was unique, whether it was mentoring or collaborating with students and colleagues, or increasing my knowledge to design scalable and maintainable web applications. The dynamic environment constantly exposed me to new technologies and resources, driving my self-development.

TECHNICAL EXPERIENCE

- JavaScript
- React
- Node.js
- Node.js
 MongoDB
 CSS
 Express
 Putho
- Express
- PostgreSQL
- SQL
- AWS
- Git
- HTML
- Python
 - Flask
 - Jinja
- Compass
- Insomnia
- Mocha
- Assert
- Java

 - Hibernate
- Jira
- Kanban
- Trello
- Figma
- Excalidraw
- Spring Photoshop
 - Illustrator

ADDITIONAL SKILLS

- Project planning
- · Analytical thinking
- Mentoring
- Relationship management
- Project and Stakeholder management
- Graphic design
- · Commercial awareness

PROJECTS



WEIGHT MATE - Personal development project, in production

A JavaScript and React based weight-lifting app, that allows a single user to have an overview of their weight lifting progress. Using exercise data sourced from an API, and saved to a MongoDB using Express and Node. Next steps includes further logic development, and deployment using Vercel. github.com/ColetteDufficy/weight_mate_app



DINOPEDIA - Group Project

A JavaScript and React based app, created to support children to learn about dinosaurs. Data is sourced from an API, then filtered and saved to a MongoDB using Express framework. github.com/ColetteDufficy/dinopedia



PIGGY SPENDING TRACKER - Solo Project

An OOP based spending tracker app that allows a single user review their spending, Using Jinja, Django, SQL and PostgreSQL on the backend, with Python, Flask, HTML and CSS on the front-end. github.com/ColetteDufficy/piggy_spend_tracker

LEARNING OUTCOMES

- Git branch management to ensure effective file collaboration;
- · Project planning and management, task allocation with collaborative work achieved via Trello board and Agile methods;
- Achieving fully functional CRUD operations;
- Designing RESTful routes to correspond with HTTP requests, to allow for server and client to communicate;
- Application of SOLID principles, to promote maintainability, function reusability and potential scalability;
- Utilising data from an open source API and non-relational MongoDB maintenance;
- Utilising React and Express frameworks to build front-end and back-end, respectively;
- Manipulating relevant data using Python and PostgreSQL, and connected it to the front-end using Flask and Jinja;
- CSS styling applied to improve application aesthetics and UX;
- Utilising Photoshop and Illustrator software to create supporting visual elements and logos.

EXPERIENCE

Junior Instructor

CodeClan, Edinburgh 08/2022 - 08/2023

- Junior Instructor delivering the Professional Software Development curriculum over a 16-week timeframe;
- Research and delivery of complex concepts in an engaging, clear and understandable way. Teaching highlights include:
 - -The concept of a **Promise** in JavaScript, and its use in a chain of **asynchronous** operations;
 - The benefits of Composition over Inheritance, and how to create an interface;
 - Test Driven Development using various testing frameworks and GUIs eg Unittest, Mocha and Insomnia;
 - Differences between relational and non-relational databases.
- · Responsible for student support and mentoring including wellbeing and mental health support;
- Lead contact for the reskin and delivery of RUTS (Rural and Urban Training Scheme) course materials:
 - RUTS provide Vocational Training for disadvantaged teenagers, and Employability Skills for adults in the Edinburgh area;
 - Google Document based learning materials were tailored specifically for each audience.
- Responsible for the submission and review of GitHub PRs;
- Continuous development of my software skills as part of my CPD, eg deploying my Weight Mate app via Vercel;
- Responsible for the creation of the Youth Academy **SQA PDA** examinations, and the assessment of student PDA submissions.

Student

CodeClan, Edinburgh 02/2022 - 07/2022

- Professional Software Development Course, covering:
 - Numerous languages, frameworks, dependencies and TDD;
 - Relational and non-relational databases, including SQL statements;
 - Concepts included OOP, SOLID principles, DRY code, RESTful routes, Agile methodology, CRUD operations and HTTP requests.

Full time parent/ carer

03/2016 - 02/2022

Senior Account Manager

Emperor Design, Edinburgh 10/2013 – 02/2016 RR Donnelley GDS, Edinburgh 05/2012 – 10/2013

- Single point of contact for clients including HarperCollins UK Print on Demand service;
- Responsible for monitoring client communication, data analysis and query resolution;
- Collate statistical and qualitative information such as financial reporting, quantifying order volumes and SLA performance;
- Lead individual on systems support for client, including absorption of files into the online digital platform, preflight management and systems wide **troubleshooting and resolution**;
- Lead on master scheduling and budgeting;
- Analyse processes and data to identify efficiencies, drive change, grow value and add improvements.

Account Manager

442 Design, Edinburgh 02/2011 - 05/2012

- Account owner for RBS Group and Edinburgh Airport;
- Project lead on multiple projects, from initial enquiry to implementation, dissemination and fulfillment;
- Creating and maintaining excellent customer relations, and being proactive in identifying and offering solutions by using my comprehensive knowledge and understanding of creative graphic design consultancy;
- Full understanding of clients' digital resources and communication channels.

EDUCATION

CodeClan

Feb 2022 - July 2022 Professional Software Development Scottish Qualifications Authority, Level 8 Award

Napier University

lan 2020 - Mar 2020*

MSc Computing: Web Design and Development Module

* Covid lockdown meant I was unable to continue.

Limerick Institute of Technology

1997 - 2001

BA (Hons) Graphic Design Communication 2:1 (SCQF Level 10)

- Design communications and typography
- Professional practice
- Critical and contextual studies
- Self-initiated solo and team projects