DR ANDREW PATTERSON B.D.S.

Junior Software Developer

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PROFILE

During my 14-year career in dentistry, I provided NHS and private services to patients in Scotland. I have changed path into a career in Software Development to pursue new opportunity and new expertise.

- Experienced in Team Management and as a Team Leader, Team Worker, Mentor and communicator.
- Motivated in continued personal Learning and Professional Development.
- Experienced in adherence to Legislation, Protocols and Continuous Improvement environment

CODECLAN PROJECTS

MACROS https://github.com/ajdpatterson/MacrOS/
JavaScript, Bootstrap, React | Java, Spring Boot, PostgreSQL

- As my CodeClan capstone project, I joined with three others to create a **full-stack** calorie and weight tracking application.
- Self-directed learning of new frameworks and libraries, such as **Bootstrap** and **Chart.js**.
- Co-ordinated design with collaborative asynchronous tools like **Excalidraw** and **Trello**. This was very useful, as our group utilised a hybrid in-person/remote working model.
- Gained experience working within the constraints of external APIs, and how to manipulate large response bodies to improve performance.
- Developed back-end with **Java/Spring Boot**, which I found to be very satisfying to work with.

BEECAREFUL https://github.com/ajdpatterson/beeCareful
JavaScript, React, MongoDB

- Our group elected to build a beehive management and weather forecasting application. This was an adaptation of two existing app concepts that I have used in my own experience of beekeeping as a hobby.
- We harnessed the **Agile methodology** to guide our team work, and gained valuable experience in **pair programming** and GitHub collaboration.
- I am especially proud of the forecasting element, involving API calls to Visual Crossing, algorithmic assessment of weather data, and visual feedback to the user via CSS.

VET PRACTICE MANAGEMENT   github.com/ajdpatterson/vet_practice_management
Python3, Flask

- Designed and implemented a **REST API application** to manage several classes of object with inheritance and interaction between each.
- O2M data model, with vets, owners, and pets.
- Custom CSS, designed around a relaxing user experience.
- **GitHub version control** was very useful in this project, and I learned a great deal of how branching and reversions can be employed.

EDUCATION

2022 - 2023	2022 - 2023	2003-2008
PDA SOFTWARE DEVELOPMENT	**PROFESSIONAL SOFTWARE DEVELOPMENT**	**BACHELOR OF DENTAL SURGERY**
SCQF level 8	CodeClan G34 Cohort	University of Glasgow

LANGAUGES AND FRAMEWORKS

- **JavaScript**
- **Java**
- **Python**
- **React**
- **PostgreSQL**
- **Flask**
- **CSS**
- **Spring Boot**
- **MongoDB**

SKILLS

- **Communication** - healthcare provision involves relating complex technical information in clear language, rapidly and accurately.

- **Agile Development** - embraced **Scrum** and incremental development at CodeClan. Many aspects of Agile were familiar from dental team management.

- **Mentoring** - provided **in-surgery training and mentorship** for dental assistants during their training periods.

- **Professional Development** - To practice dentistry to high standards, it was essential to continually update skills and knowledge. I attended many courses and conferences, and achieved full membership of the British Academy of Cosmetic Dentistry.

- **Novel Technologies** - During my career in dentistry, many new technologies entered common use. It was a pleasure to adapt working practices to **digital dentistry**, to master intraoral 3d scanners and digital manufacturing systems.

EXPERIENCE

ASSOCIATE DENTIST - BRITE DENTAL 47 Neilston Rd, Paisley PA2 6LY
June 2018 - September 2022
- Led busy NHS/private dental surgery, including a team of dental assistants.
- Solidified skills with digital dentistry, **CAD/CAM**, **3shape TRIOS intraoral scanning**.
- Joined pilot program for a novel orthodontic system, which involved liaising with manufacturing teams in Texas and Germany.
- Extensive experience as end-user of **machine learning** orthodontic management system, Dental Monitoring.
- Practicing dentistry during COVID pandemic response involved rapid response to ever-changing legislation, clinical techniques, and patient management (remotely or in-surgery).
- Monthly clinician meetings and daily 'huddles' were a key part of the team-management in this practice.

ASSOCIATE DENTIST - BISHOPBRIGGS DENTAL CARE 17 Arnold Ave, Glasgow G64 1PE
May 2013-June 2018
- Managed a small team of dental assistants, both in traditional principal-led and associate-led models.
- Actioned practice governance including **clinical audit** following NHS protocols.
- Completed Post-Graduate Certificate in Contemporary Restorative and Aesthetic Dentistry with Dominic Hassall Training Institute.
- Achieved Full Membership of the British Academy of Cosmetic Dentistry.

ASSOCIATE DENTIST - EIGHTDENTAL
2012-2013

ASSOCIATE DENTIST - THOMAS BURNS DENTAL PRACTICE
2008-2012