STEWART FRASER

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I am a **dynamic, target-driven** professional who always pays **attention to detail** with transferrable skills gained in the oil, communications and academic sectors. I can **efficiently multi-task** and head initiatives focusing on **quality value-added solutions**. I **interface articulately** at all levels, displaying **solid client engagement** and **influencing** abilities. I am seeking a challenging role at a forward-thinking enterprise, utilising technical and business acumen to achieve longer term objectives.

CORE COMPETENCES and ACHIEVEMENTS

- **Outstanding communicator** with **excellent presentation skills** developed at university through formal and informal presentations. Successfully chaired formal meetings between stakeholders in industrial projects. Constantly liaised with clients while working in the oil and gas sector.

- Worked as a programmer to **constantly improve** the Video and Data Acquisition Software Suite of Forum Energy Technologies. Demonstrated organisational skills by serving as an Employee Representative. Liaised with clients to provide real-time technical support.

- **Managed** a state-of-the-art **video production suite** at 4i2i Communications to **perform real world tests and document results.** Achieved routing of real-time raw video testing through encoders, decoders, plus processing, monitoring, capturing and transporting cards.

- Acquired a **broad range of computing skills**, including Python, JavaScript, SQL, CSS, HTML, Go, C#, Perl and C/C++. Experienced with applications and administration of Windows and Linux operating systems. In-person and online bootcamps taken to enhance coding skill sets.

- Employed thorough **scientific analysis to complete research** and writing in diverse image and video processing techniques. Tested and improved methods and **wrote well-reasoned** technical reports and scientific **papers**.

- **A strong team player** who worked at an optimal level on own initiative. Managed a project for three years whilst completing a Knowledge Transfer Partnership (KTP), reviewed papers and chaired International Conference Program committee sessions.

EMPLOYMENT HISTORY

05/2024 – present   Senior Software Engineer   BEAT, London (remote)
- Leading a team of three junior software developers in the design and development of a sophisticated modelling, simulation, and optimisation environment for vehicle fleet analysis using Python.
- Independently developing a blockchain-based solution for secure and private data sharing, leveraging expertise in Go programming, Bash scripting and Docker.
- Spearheading the development of cutting-edge software solutions with a small, agile team of developers.
- Collaborating closely with the CEO to secure funding by contributing technical expertise to grant proposals.
- Representing the company at workshops and conferences, effectively showcasing technical projects and achievements to diverse audiences.
- Managing and maintaining all company code repositories, implementing and upholding best practices for software development, version control, and code deployment.

07/2019 – 05/2024   Self-funded Cryptocurrency Trader
- Implemented technical analysis methodologies on the TradingView platform to construct trades for the cryptocurrency markets.
- Wrote own code to improve trade efficiency using Pine Script (to create indicators in TradingView) and Perl (for trade execution via a bot).
- Implemented appropriate risk-management strategies and kept detailed records of trades executed.

- Active member in various online crypto communities - shared charts, ideas and gave help to other members with trade queries.

06/2013 – 07/2019   Software Engineer   Forum Energy Technologies, Aberdeen
- Integrated new capture and encoding cards to our existing DVR encoder engine framework using C++/C# within Microsoft Visual Studio.
- Updated functionality of our DVR encoder engine to satisfy changing client requirements.
- Successfully created scripts to analyse and fix multimedia files for clients; tasks would include fixing and re-encoding large volumes of video data that were corrupt.
- Created concise documentation detailing code functionality of our encoder engine.
- Worked as part of an on-call team providing 24/7 support to our customers that required real-time solutions to current issues.

02/2009 – 06/2013   Software Developer / Test Manager   Evertz Microsystems, Aberdeen
Oversaw design of automated tests to quantify performance of video codecs using scripting languages and hardware monitoring.
- Utilised various Agile development tools to manage testing and share results, participating in international conference calls to plan future tests.
- Key member of team which developed C/C++ software components for MPEG2, H.264 and H.265 video codecs.

02/2006 – 01/2009   KTP Associate   4i2i Communications / Aberdeen University
- Knowledge Transfer Partnership (KTP) Associate on a joint *4i2i Communications Ltd* and **University of Aberdeen** collaboration.
- Adeptly managed a KTP project that involved researching and developing image processing IP cores for FPGAs.
- Displayed interpersonal skills when chairing meetings with stakeholders; presented work at international conferences.
- Employed real-time codecs to compress videos for clients, showcasing hardware encoders.

09/1998 – 02/2006   Teaching and Research Assistant   Aberdeen University
- Teaching Assistant in the Department of Engineering (10/2005-02/2006) delivering second year course modules; presented lectures, organised tutorials and set exams.
- Research Assistant for Dr A R Allen (05/2003-09/2005) who performed novel research into a wide range of digital image watermarking techniques, published findings in scientific papers.

05/2001 – 01/2002   C/C++ Programmer (part-time)   Axeon Ltd, Aberdeen
- Incorporated additional functionality to VindAx software development suite using Microsoft Visual C++; contributed to quality assurance and produced detailed technical reports.

ACADEMIC QUALIFICATIONS

1998 – 2005   **PhD in Engineering** – University of Aberdeen (Supervisor: Dr A R Allen)
                        EPSRC Scholarship (Engineering & Physical Sciences Research Council)
Thesis: "Multi-resolutional Techniques for Digital Image Filtering and Watermarking"

1994 – 1998   **BEng (Hons) in Electrical and Electronic Engineering** – University of Aberdeen

PROFESSIONAL TRAINING

03/2024   **Online Bootcamps** – Udemy, freeCodeCamp and Microsoft
                        Online courses completed with certification:
- **Python**: "Data Analysis with Python" (freeCodeCamp)
- **JavaScript**: "JavaScript Algorithms and Data Structures" (freeCodeCamp)
- **C#**: "Foundational C# with Microsoft" (freeCodeCamp & Microsoft)
- **Go**: "Go: The Complete Developer's Guide" (Udemy)

- **JavaScript**: "Backend Development and APIs" (freeCodeCamp)
- **SQL**: "The Complete SQL Bootcamp" (Udemy)
- **Python**: "The Complete Python Bootcamp" (Udemy)

06/2023	**Digital Skills Bootcamp: Software Development** – JustIT, London A twelve-week intensive bootcamp covering the fundamentals of full-stack web development with a focus on Python, JavaScript, SQL, CSS and HTML.
04/2009	**CEng: Chartered Engineer** – Institution of Engineering and Technology (IET) **MIET: Member of the IET**
02/2009	**NVQ in Management: Level 4** – Chartered Management Institute (CMI)