
LEWIS BRITTON

Master of Science SOFTWARE DEVELOPMENT
Bachelor of Arts FINANCE

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Introduction

- **Master of Science** with **Distinction** graduate of Software Development from the University of Strathclyde. Focus on *database development, object oriented programming, software engineering, and cyber security and ethics*.
- **Bachelor of Arts** with **First Class Honours** graduate of Finance from the University of Strathclyde. Focus on *quantitative methods, asset pricing, corporate investment, and corporate financing*.
- Through my interests, education and employment, I have constructed an ability to set and attain goals efficiently, organise and plan in depth and maintain a strong work ethic, in balance.
- I value honesty and respect to satisfy the right and the greatest amount of people for the objectively correct reasons. This requires a dynamic and versatile attitude which I take pride in practicing.

Skills

PROFESSIONAL	Financial Theory, Economic Theory, Econometric Methods, Mathematics & Statistics, MATLAB & Gretl, Microsoft Excel & Visual Basic, Autodesk Computer Aided Design (CAD), Serif & Adobe Desktop Publishing (DTP), Sales & Marketing Methods
CONDUCT	Organisation & Structure, Logic & Accuracy, Efficiency & Care, Rationale & Pragmaticism, Maturity & Strong Conduct, Strict Consistency, Honest Where Appropriate, Competitiveness & Completionism, Exceedingly Punctual, Confident & Charismatic, Professional Linguistics & Accent, Exceptionally Independant, Self-Sufficient, Truth to Self, Well-Practiced Manners & Generosity, Empathetic & Caring for Others, Unique & Diverse Humour

Academia

2021–2022

M.Sc. in Software Development

University of Strathclyde, Glasgow

In fifth year, my MSc, topics focussed on *database development, object oriented programming, software engineering, and cyber security and ethics*.

Database Development: The two classes in this course on databases, CS990 and CS992, explored the design and implementation of databases using Structured Query Language (SQL) with basic querying; and more abstract concepts of database implementation such as the structure and efficiency of relational vs. non-relational vs. hybrid databases, and further querying; respectively. Both classes involved regular lab sessions in which databases were to be built and queried; an assignment for the former which involved taking information and formulating a logical database design with appropriate relationships and tables which was then constructed and queried accordingly; and an assignment for the latter which explored theory behind the history and use of relational databases, the rise of non-relational systems, and the concept and design of hybrid ones.

Object Oriented Programming: This aspect also involved two classes, CS994 and CS995. These were based on Python and Java, respectively. As well as the regular lab sessions which were structured around providing the fundamentals of Python and Java, both of these classes involved basic assignments which put these developments into practice. The Python assignment involved the construction of a miniature weather application using JSON data. The Java one involved building various components of a functional library system.

	<p>Software Engineering: The two classes associated with this aspect, CS991 and CS993, were both more open-ended and focussed more so on the software design and engineering process. Although it could be argued that the first of the two could also have been related to object oriented programming as it involved mobile application development. I, however, chose to go down the route of HTML, CSS and JavaScript in this case. As I most commonly do when presented with the option. The second was bases more so on standards and principals of project panning, design, workflow and management. These two classes were, once again, based on the delivery of assignments. The assignment for CS991 essentially involved the design and prototyping process of an application. This included elements such as working demonstrations and documentation, etc. There were two assignments for CS993 however, they both followed the same general framework: requirements gathering and ranking; user stories; project management, including software and team management; front-end (user interface) design and functionality; back-end design and functionality; test-driven development; and testing elements.</p> <p>Cyber Security & Ethics: This involved two classes, CS808 and CS978, which loosely tie together from an ethical point of view. The cyber security class involved structured elements of cryptography, steganography and authentication, malware, human security, network attacks, network defense, and threat modelling. There was a routine examination based on these topics. The class also involved an assignment based on the concept of steganography and the Least Significant Bit (LSB) approach; and the engineering of a command line based program using python which: encodes a message in a 24bit Bitmap (bmp) image using the Pillow Image Library (PIL); decodes the message from the image by: requesting a text file; reading, extracting and storing text within the file; checking the image size against the target text file size to ensure there is sufficient space to store the text; identify errors returning the user with a sufficient path; and fulfilling the PEP 8 standards. Furthermore, the ethics class involved an essay exploring ethical theory, values, principals, and their implementation; morals of accessibility including restrictions, malware and external intrusive action; privacy and regulation, data misuse and privacy, government and non-government intervention, and corporate responsibility.</p>
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2017–2021

	<p>B.A. Honours in Finance <i>University of Strathclyde, Glasgow</i> Honours year Finance study focus on <i>quantitative methods, asset pricing, corporate investment, and corporate financing</i>. Dissertation based on market efficiency and the Seasonal Effect in the US stock market.</p> <p>Theoretical & Empirical Finance: developing knowledge and understanding of corporate finance analysis and planning. Including capital budgeting, capital depreciation, inventory management, risk management, Black & Scholes option pricing and foreign corporate exchange. Also involving extensive statistical Excel/Visual Basic usage. Introducing application of portfolio optimisation techniques such as mean-variance analysis, portfolio frontier analysis and Sharpe testing. Executed through MATLAB. Furthermore, this involved the development of Options and Futures market derivative pricing, in addition to the management of international risk and exchange.</p> <p>Microeconomics & Macroeconomics with Econometrics: aiding skills derived from advanced algebra with economic application and use of cross-section econometric regression and descriptive statistical analysis through the package Gretl. This skillset involved practical application of personal/corporate choice, game theory and public economics. Macro applies various analytical and statistical analyses observing monetary and fiscal policy, wage and price setting, output functions and global economics in time-variant econometric analysis.</p>
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2017–2022

	<p>Extra-Curricular <i>University of Strathclyde, Glasgow</i> Strathclyde University Mountaineering Club, Student Ambassador Team, Unibuddy Administrator, Widening Access Team, ‘One Step Forward’ Event, MATLAB Projects, Gretl Projects, Microsoft Excel Projects, EY Security Project</p>
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Employment

2022–PRESENT	<p>Company (Not Firm): WageSlave</p> <p><i>City, Country</i></p> <p>Wage'ing.</p>
2021	<p>Costa Coffee: Barista</p> <p><i>Glasgow City, Glasgow</i></p> <p>A first-time barista at the Glasgow Central Station Costa Coffee. As expected, this involves various fun and relaxing roles such as front-of-house customer interactions, including the rush-hour(s) mobs; till and cash management; stock management; cleaning and basic maintenance of tools and equipment; and of course, making a stunning array of coffees and cold drinks.</p>
2019–2021	<p>Virtuous Truffle Company: Owner</p> <p><i>Giffnock, East Renfrewshire</i></p> <p>I care for the production of high quality luxury goods. This premium confectionery company is my way of presenting my love for indulgence, extravagance and high quality production methods. It has allowed me to showcase and develop my skills in business management methods such as stock management, financial record keeping, operations management, marketing and graphic design.</p>
2019–2020	<p>Lakeland PLC: Retail Assistant</p> <p><i>Glasgow City, Glasgow</i></p> <p>It started as completing morning deliveries like Jeff Bezos on day one, to selling a record number of products like The Wolf while on front of house demonstrations; 400% more than the runner-up on my best performing day. Lakeland offered me development from all angles, social and economic. I've received multiple cases of praise regarding my "impeccable" customer service and understanding of social desires. I was trusted to open and close store, manage the store funds and stock and have perpetual input in the store marketing and sales. I provided a strong, kind and reliable face by adopting a customer-centric nature. My excellent relationship with my boss allowed transparency and freedom which translated to efficiency and a strong understanding of operations. Lakeland is a place of strong hierarchical and consumer intimacy and thus, provided me with great joy.</p>
2018	<p>J Sainsbury PLC: Customer Service Assistant</p> <p><i>Shawlands, Glasgow</i></p> <p>I was responsible for the primary operations such as till and cash management, stock management, handling of lottery, liquor and tobacco, and general store maintenance. The Sainsburys 'Think 25' protocol introduced me to analysing and identifying human age at a rapid pace while serving particular customers. I was presented with 'challenges' such as attempted violence and extremely minor robberies. These were a great opportunity for developing my management of people.</p>
2018	<p>Sedgwick Group PLC: Customer Service Agent</p> <p><i>Glasgow City, Glasgow</i></p> <p>I managed traffic from policyholders, clients and adjusters within the communication wing of their Glasgow office. I implemented a complex database directory with simultaneous tasks in ambition to connect and satisfy policyholders, clients and my employer. I balanced care for the client and policyholder through composure and vigilance regarding provoked policyholders, diffusing confrontation.</p>

2022

B.A. Dissertation

Burning Roots

Masters project on a functional website/application built using barebones HTML, CSS and JavaScript, and various testing components; version control using Git with GitHub and GitHub CLI; and a comprehensive write-up using my second language spoken at home, TeX (LaTeX). It provides multiple useful components which are relevant to hiking and walking route planning, including various informational elements based on displaying data from a JSON file; a weather application which uses the OpenWeather API and Geolocation to provide current and forecasted weather data; a layer-toggle map which uses the Ordnance Survey API; and many map overlay features and toggles which use data from a JSON file, the Leaflet JavaScript library, and Geolocation.

2021

B.A. Dissertation

New York’s Seasonal Effect: Further Analysis of New York’s Interlinking and Turn-of-the-Year Seasonal Stock Return Fluctuations with Evidence from the NYSE, NASDAQ and S&P 500

Honours dissertation focussing on time-series analysis of US stock returns, in search of Seasonal Patterns in the Weekend Effect, January Effect and Holiday Effect which contradict Efficient Market Hypothesis. Utilising mathematical and statistical methods such as regression analysis.

2017–2021

Other Academic Writings

In 2020/2021, I decided to transcribe all of my old university notes, assignments, tests and exams in \LaTeX . Move away from this MicroBloat Soyoffice, and that. It’s a little bit of OCD, a little bit of completionism, desire for continuity, and a little bit of loving for Don. E. Knuth’s \TeX .

Communications & Interfaces

USUAL WORKFLOW

I am developing and maintaining a sustainable and minimalist Linux system. I main a Lenovo ThinkPad T420 and burn an X220. I currently use the OS Manjaro on which I run i3-Gaps but with plans to transition to Suckless’ dwm window tiling manager. I tend to spend my days in the text editor Vim, writing and compiling documents in L^AT_EX/Markdown using primarily pandoc and pdf_latex. This sometimes extends to Beamer-compiled slide shows. I’m also very familiar with my desktop workhorse and other machines running Windows XP and Windows 7 and, my MacBook Pro running MacOS.

LANGUAGES & COMPUTER INTERFACES

HUMAN	United Kingdom English, United States English, Associated Keyboard Layouts
MACHINE	Shell (bash/zsh), L ^A T _E X, Markdown, R Markdown, HTML, CSS, R, Python, MATLAB/GNU Octave, Java, JavaScript
PROGRAMS	Manjaro, i3-Gaps, dwm, Polybar, Alacritty, st (Simple Terminal), zsh, Vim, neoVim, SC-IM, ls, lsd, LF, Ranger, nmcli, xrandr, Thunderbird, Mutt, NeoMutt, Calcurse, Newsboat, wget, cURL, sxiv, cmus, mpd (ncmpcpp, mpc), mpv, Scrot, Pandoc, pdf _l atex, XeLaTeX, LuaTeX, Beamer, python3, java, javac, javadoc, M _μ PDF, Zathura, lynx, GIMP, ticker, mop-tracker, tty-clock, FFmpeg, neofetch, cmatrix, asciiquarium, sl
HARDWARE	IBM ThinkPad T23, IBM ThinkPad X30, IBM ThinkPad T42, IBM ThinkPad R50e, Lenovo ThinkPad X220, Lenovo ThinkPad T420, IBM Model M 1987, Cisco CP-7962G

Hobbies

INTELLECTUAL	Computer Hardware Architecture; Computer Software Architecture; Classic IBM Product Collection; ThinkPad Enthusiasm; Model M Enthusiasm; Linux-Based Systems and Efficiency; The Command Line; Document Typesetting & Markup; Document Transcription; Web Markup & Development; Further Mathematics; Further Statistical Methods; Trading Terminals & Personal Investment
LIFESTYLE	Real Estate & Interior Design; High-Quality Goods & Sustainability; Tennis, Tennis Equipment, Tennis Statistics; Squash; Badminton; Table Tennis; Road Cycling & Bicycle Components; Munros, Corbetts, Grahams, Sub2000s & Donalds; Scotland & The Natural Outdoors; Global Cultural Understanding; The United States of America; John Hughes & 1980’s Cinema; Miami Vice & 1980’s Television; Jan Hammer & 1980’s Music; Culinary Science; Good Nutrition; Kitchen Appliances, Utensils, Storage & Décor; Crockery, Cutlery & Glassware; A Good Cafe; High-End Food Stores

References

- Email me with details on your interest in me and if required, I will refer you to an individual who can affirm my relevant skills and practice.