Liam Buchanan

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Core Skills:

• Strategic Thinker	• Excellent grasp of complex mathematical and programming concepts. (Python, Java and Typescript)
• Highly Motivated & Outcomes Focused	
• Entrepreneurial	
• Eager to learn	• Work effectively independently and in groups

EDUCATION:

University of Exeter   September 2022 – June 2025
BSc in Mathematics and Computer Science (Predicted 2.1)   Exeter, UK
- Key modules: partial differential equations, learning from data, graphs networks and algorithms, group software engineering project.
- Weekly tutorials hone skills in presentation and the ability to simplify and convey complex processes.

Fettes College: September 2017 – June 2025
- International Baccalaureate (40/45):   Edinburgh, UK
  - Mathematics Analysis and Approaches HL – 7
  - Economics HL – 7
  - Computer Science HL – 6
- GCSEs: 9 in Maths and Computer Science. 8's in 7 others.

WORK EXPERIENCE:

Expedition Science Ltd   October – December 2024
Technical Lead   Remote
- Streamlining and optimising systems for data and contact management, ensuring proper integration and functionality between the platforms.
- Creating a system for accrediting climate researchers who are looking for private funding.
- Ensuring the platform requires minimal human input, and users get onboarded correctly according to certain criterion.

B4NZ Ltd   June 2023 – Present
Event Staff and Technical Lead   London, UK
- Worked in several events hosted by B4NZ, the UK Country Chapter of the UN Convened Net Zero Banking Alliance, in the UK Parliament.
- Greeted and welcomed all event attendees, ensuring a warm and professional first point of contact.
- Acted as a representative of the company's brand, upholding its values and enhancing its reputation through professional and courteous interaction with high profile guests including government ministers, parliamentarians and C suite financial services attendees.
- Built bespoke app for increased efficiency in contact management.
- Supported small executive team with any tasks required in a fast paced and high-pressure environment.

Projects – Portfolio Website: www.liambuchanan.com

CRM and Contact Details Extractor
- Developed a fully automated CRM system using Next.js, Typescript, Python and MongoDB.
- Integrated WhatsApp API to allow users to send images (business cards/lanyards) to a WhatsApp contact, and the details get automatically extracted and uploaded to the database.
- Website can accept payments and manage the user's subscription.

Ticket Marketplace App
- Designed and launched a React Native mobile app enabling university students to buy and sell second-hand event tickets.
- Achieved several hundred sign ups on the app store and facilitated several transactions.
- Integrated secure payment processing, user authentication and serverless architecture on AWS.

Ticketing Bot and Resale website:
- Engineered a Python-based ticketing bot that automated high-demand event ticket purchases by reverse-engineering the website APIs.
- Built a Next.js website to sell tickets, which processed payments from 250+ customers and generated £2000 a month in revenue.
- Implemented multi-threading and HTTP request optimisations to increase scale and speed of Python bot.

Interests

- Skiing
- Sailing – RYA Day Skipper certification
- Traveling