

# DARIO LABRADOR ALONSO

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## RELEVANT EXPERIENCE

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### Full Stack Developer – Software Engineering Team Project (Jan 2025 – May 2025):

- Exercised effective teamwork through working as a team to develop a Full-Stack trading web application aimed at reducing wasteful consumption.
- Delivered a presentation about the project to industry leaders which received outstanding appraisal as well as top marks.
- Successfully led Backend development by addressing technical challenges with collaboration. Which deepened the team's proficiency in TypeScript, React and PostgreSQL.
- Contributed to Frontend design by contributing to design prototype, and refining UI. Resulting in an engaged and informed UX, loved by lecturers.
- Applied Version Control and CI/CD strategies, by implementing commit hooks and autonomous testing with GitHub Actions.

### Web Developer Intern – Newcastle University Health Economics Group (June 2024 – August 2024):

- Spearheaded the redesign and development stages of the Health Economics Group Staff Profile, collaborating with a team of three doctors to address issues and implement changes.
- Conducted HCI research to deliver a polished and accessible design.
- Applied previous experience in React and Tailwind to customize the website's functionality and stylesheet, which led to more productive development iterations and a maintainable codebase.

### 1<sup>st</sup> Place Winner – Microsoft GenAI Hackathon (April 2024):

- Secured first place in Microsoft's GenAI Hackathon by delivering a working prototype using Azure's services in just 2 hours through effective team collaboration. Met Microsoft's Executive Business Lead Derrick McCourt, due to the team's success in delivery.
- Thoroughly researched Azure's documentation to integrate the API with the initial project's iteration, which led to a fully working program in the first stages of development.
- Developed a GUI using CustomTkinter to facilitate interaction with the prototype during the team's presentation, resulting in successful delivery and positive feedback from a board of Senior Azure Cloud Architects and Software Engineers.

## QUALIFICATIONS & AWARDS

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### BSc Hons Computer Science with Year in Industry (Software Engineering) – Newcastle University (2023-2027):

- Predicted Grade: 80.5%.
- Year 2: Studying advanced Software Engineering modules, while gaining hands-on experience in Cloud Computing, DevOps, and Data Science. Currently, exploring ongoing research in real-time object detection within Computer Vision.
- **NCL+ Award:** Granted to members of the student community actively engaging in extracurricular activities beyond academic commitments.
  - Acquired by balancing two part-time jobs, participating in student-led hackathons, and networking events, while maintaining first-class results.
- **Student Worker of the Year Nomination:** Awarded to top-performing student staff in the university.

- Attained by working as a Research Assistant within the Access and Participation Plan team, to help in the construction of accessibility and inclusion policies for prospective students.

#### **A Levels with EPQ – York College (2021-2023):**

- Results(A\*BCA): Spanish Language, Computer Science, Business Studies, EPQ.
- Explored Spanish history and politics, while developing projects in C#, and appreciating the importance of teamwork in businesses. Analysed the impact of AI in the Christian religion as part of an EPQ.
- **Student Role Model REACH Nomination:** Assigned to role model student minorities who excel academically while engaging in extra-curricular activities.
  - Nominated by balancing self-employment, part-time work, and a Student Union Officer role, during A-Levels.

#### **TECHNICAL SKILLS & PROJECTS**

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**Software Tools:** Git/GitHub, GitHub Actions, Azure, GCP, Docker.

**Programming Languages:** React.js, Typescript, Tailwind CSS, Java, Python, C, SQL

#### **Notable Projects:**

- **Portfolio Website:** A responsive site built with React, Typescript, Tailwind CSS, and Node.js to showcase qualifications, projects, and real-time data fetched from a GitHub profile.
- **Process Intercommunication Program:** A low-level project in C designed to manage computer processes using priority queues and semaphores for process synchronisation.
- **Machine-Learning Project:** A Data Science project developed with Scikit-Learn, Pandas and Seaborn libraries to provide analytics, visualisations and linear predictions to a wine supplier.
- **Remote Data Transfer Project:** An application in Java that securely transfers encrypted files between nodes using network sockets and different ARQ protocols (Selective Repeat, Stop and Wait, and Go Back N).
- **Full-Stack Blogging Website:** A blogging platform built with Flask, featuring enhanced security measures against cyber threats such as Brute Force, Impersonation, DDoS, and Injection attacks.

#### **EXTRACURRICULARS & ACHIEVEMENTS**

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- **2<sup>nd</sup> Place BAE Systems CTF:** Collaborated with three placement year students in an 8-hour-long Capture the Flag competition to solve challenges such as Cryptography, Reverse Engineering and Packet Capture. Although the team finished in 2<sup>nd</sup> place, it exceptionally delivered the highest number of correct answers per hour.
- **Azure Course:** Completed 5 Azure courses in Microsoft Learn and LinkedIn Learning, such as Azure DevOps, Azure Development and Azure Kubernetes Service (AKS).
- **Google Cloud Platform Course:** Finished 4 online GCP courses in Google Cloud Learn and LinkedIn Learning. The courses covered include Cloud Data and Storage, Cloud for Enterprises, and Cloud Functions.
- **Computer Science Peer Mentor:** Guided 20 first-year students through academic and university life challenges, ensuring a strong engagement and connection with the School of Computing.
- **Peregrine Software Development Webinar:** Enrolled on an annual webinar hosted by Newcastle University scholars and northeastern industrial experts who introduced students to Cloud Computing and DevOps practices by completing exercises in Azure, Docker, and GitHub Actions.
- **Student Union Outreach Officer:** Guided prospective students to a successful beginning in career progression, by showing individual support and adept knowledge of the college's career paths. Introduced 30% over the average number of open day registrations.