

NUNO ALEXANDRE GONCALVES

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WORK EXPERIENCE

INFOSYS

Aug 2022 – Present

Specialist Programmer (Software Engineer)

London, UK

- Built high-performance backend APIs utilizing **Python**, **SQLAlchemy**, **PostgreSQL**, **GraphQL**, and **AWS** to automate and transform national fuel cost data for seamless frontend integration. Achieved response times under 2.1 seconds.
- Developed an AI-driven XML-to-unit-test automation tool with **GPT-4** and **Java SpringBoot**, boosting automated test coverage from **40% to 80%**.
- Recognized with the **Rising Star Award (March 2024)** for exceptional contributions to agile development and team mentorship.

BARCLAYS

Jan 2020 – May 2023

LifeSkills Youth Advisory Councillor (Volunteer)

London, UK

- Featured as a panellist at Barclays LifeSkills Unpacked seminar, helping over 300 educators nationwide in embedding career readiness and soft skills into their curriculum.
- Delivered workshop sessions in collaboration with the **Talent Foundry charity**, encouraging over 50 students in **underprivileged schools** to succeed and how to best prepare for their GCSE exams.

ECHOBOX

Jul 2021 – Sep 2021

Operations Intern

London, UK

- Performed in-depth analysis of 40% of Echobox's potential customer base, auditing 200 – 360 clients weekly and onboarding 2000+ new accounts in Q3, driving significant growth in customer insights.
- Automated client communication flows via **Java**, **Apex**, and **Salesforce**, reducing meeting no-show rates and improving client engagement and retention.

J.P. MORGAN CHASE & CO

Mar 2020 – Apr 2020

Spring Into Technology Intern

London, UK

- Networked with industry experts and fintech professionals, gaining insights into their day-to-day roles and career paths within **J.P. Morgan** and the wider fintech industry.
- Applied analytical and algorithmic skills in fintech simulations, showcasing strong problem-solving under time pressure.

EDUCATION

UNIVERSITY OF BATH

Bath, UK

BSc (Hons) Computer Science Degree

- Degree Classification: **First Class Honours**

PERSONAL PROJECTS

TURING MACHINE LAMBDA CALCULUS CONVERTER

Dec 2021 – May 2022

- Built a bi-directional translator between **Turing Machines** and **Lambda Calculus**, using **JavaScript**, **Bootstrap**, **Jest** to simulate and translate both models with polynomial time efficiency.

TEMPLATE-BASED ICON MATCHING

Feb 2022 – May 2022

- Built a **Python** icon-detection program using **SIFT**, **OpenCV** to detect icons within larger images, achieving **98.5% accuracy** with a **10.29s runtime**.

TECHNICAL SKILLS & CERTIFICATIONS

- **LANGUAGES:** **Python**, **SQL**, Java, SpringBoot, C++, TypeScript, JavaScript
- **TECHNOLOGIES:** **Pandas**, **NumPy**, **SQLAlchemy**, **PySpark**, **React**, **Next.js**, **Node.js**, **MERN**
- **TOOLS:** Excel, Visual Studio Code, Jupyter Notebooks, GitHub