NUNO ALEXANDRE GONCALVES

London, UK linkedin.com/in/n-alex-goncalves/

github.com/n-alex-goncalves

SKILLS & CERTIFICATIONS

BACK-END DEVELOPMENT: Python, Java, Spring Microservices

FRONT END DEVELOPMENT: ReactJS, TypeScript, JavaScript, Bootstrap

MISCELLANEOUS: AWS Cloud Practitioner Essentials, SQL, SQLAlchemy, Excel, SQLID, OOP

WORK EXPERIENCE

INFOSYS Aug 2022 – Present

Specialist Programmer (Client: BP)

London, UK

- Built an email mining application using Azure vector stores, OpenAI, GPT-4, Python, SQL to extract key information from unstructured email blobs and deliver structured, tabular results via an ETL pipeline for RAG chat responses.
- Built high-performance backend APIs using Python, SQLAlchemy, PostgreSQL, GraphQL, and AWS, transforming national fuel costs for frontend integration. Reduced response times to under 2.1 seconds, improving system efficiency.
- Developed an AI pipeline as part of a research group to modernize XML/XSLT legacy systems into scalable Spring Microservices via the use of GPT, improving maintainability and modularity.
- Awarded the Rising Star Certificate (March 2024) and Rise Insta Award (December 2024) for exceptional contributions to team mentorship and work achieved.

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 integrate career readiness and soft skills into their curriculum.
- Delivered workshops to students from underprivileged schools in Taunton Deane, Somerset and Bury, Greater Manchester to motivate and support their exam preparation.

ECHOBOX Jul 2021 - Sep 2021 London, UK

Operations Intern

- Analyzed 40% of Echobox's potential customer base, auditing 200 360 clients per week and onboarding 2000+ new accounts in Q3, driving significant growth in customer insights.
- Reduced meeting no-show rates by automating client communication flows and email reminders via Java, Apex, and Salesforce, improving client 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 career paths within J.P. Morgan and the wider fintech industry.

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 interpret and translate both models within polynomial time efficiency.

TEMPLATE-BASED ICON MATCHING

Feb 2022 – May 2022

Built an image icon-detection program using SIFT, OpenCV, Python to detect icons and symbols (i.e., road signs) within larger images, achieving 98.5% accuracy with a 10.29s runtime.