

# NUNO ALEXANDRE GONCALVES

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## WORK EXPERIENCE

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### INFOSYS

Aug 2022 – Present

*Software Engineer (Strategic Technology Group)*

*London, UK*

- Built key backend **Python** APIs using **SQLAlchemy**, **GraphQL**, **AWS** to serve/model PostgreSQL fuel cost data into the frontend, achieving response times of **under 2.1 seconds**.
- Created an AI chatbot with **TensorFlow** and **HuggingFace** to automate XML file conversion into **Mocha/Chai** integration tests, utilizing prompt engineering techniques.
- Developed **CRUD** applications with **React**, **SpringBoot**, **Next.JS**, **TypeScript**, ensuring maintainability by applying **SOLID** and **OOP** practices.
- Awarded the **Rising Star Award (March 2024)** for outstanding contributions to agile development and team mentorship.

### BARCLAYS

Jan 2020 – May 2023

*LifeSkills Youth Advisory Councillor (Volunteer)*

*London, UK*

- Selected as a panellist at the **Barclays LifeSkills Unpacked** seminar, helping **over 300 teachers nationally** on integrating career-ready skills into their curriculum to prepare students for the workforce.
- Delivered workshop sessions in collaboration with the **Talent Foundry charity**, encouraging over 50 students in **underprivileged schools** to succeed and prepare for their exams.

### ECHOBOX

Jul 2021 – Sep 2021

*Operations Intern*

*London, UK*

- Analyzed **40%** of Echobox's customer base in **Salesforce**, reviewed **200 – 360 customers weekly** and added **over 2000 company accounts** in Q3, significantly improving Echobox's customer insights.
- Automated client reminder emails using **Java**, **Apex**, **Salesforce**, decreasing business development relation meeting no-show rates and boosting overall client engagement.

### J.P. MORGAN CHASE & CO

Mar 2020 – Apr 2020

*Spring Into Technology Intern*

*London, UK*

- Participated in **fintech workshops** focused on **distributed databases**, **cybersecurity**, and **machine learning**, gaining insights into core fintech technologies.
- Attended presentations by **fintech professionals** to learn about their career progression and day-to-day operations within the industry.

## EDUCATION

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### UNIVERSITY OF BATH

Bath, UK

*BSc (Hons) Computer Science Degree*

- Degree Classification: **First Class Honours**

## PERSONAL PROJECTS

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### TURING MACHINE LAMBDA CALCULUS CONVERTER

Dec 2021 – May 2022

- Built a **bidirectional Turing machine and lambda calculus translator** using **JavaScript**, **Bootstrap**, **Jest**, mechanically validating the Church-Turing Thesis in polynomial time.

### 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

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- **LANGUAGES:** Python, SQL, C++, TypeScript, JavaScript, Java
- **TECHNOLOGIES:** AWS, Pandas, NumPy, SQLAlchemy, React, Next.js, Node.js, MERN