

# Indigo Nolan

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## Education

Computer Science BSc at University of Southampton, predicted First 2024 - 2027

A\*A\*A at A-Level, 11 A\*s at GCSE

## Skill Stack

- **Languages:** Python, Javascript, Typescript, Java, SQL, HTML/CSS
- **Frameworks & Libraries:** Next.js, React, React Native, Node.js, RESTful APIs
- **Databases & Platforms:** PostgreSQL, Supabase, MongoDB, Google Cloud Platform
- **DevOps & Developer Tools:** Git, Docker, Vercel, GitHub, VS Code, Slack
- **Spoken languages:** English (Native), French (B2), Russian (B2)

## Experience

**Summer Intern, Shell AI** July 2023

- Analysed the practical applications of machine learning models to optimising real-time oil drilling operations
- Contributed to the UI/UX prototyping of a social justice mobile app concept with a team of interns which we pitched to senior Experience Design leads

**School President, Southampton University Students' Union** Present

- Elected to lead the 2,800-student Electronics & Computer Science School, chairing a committee of representatives and pushing for improvement to senior faculty
- Successfully advocated for structural changes in the voting system to fix historic under-representation

## Projects

**CashCat.app - Personal Budgeting Webapp** - [cashcat.app](https://cashcat.app)

- Developing a full-stack budgeting webapp using zero-based financial principles
- *Stack:* Next.js, React, PostgreSQL, RESTful APIs

**Climate Stories Library - International Video Library** - [climatestorieslibrary.com](https://climatestorieslibrary.com)

- Designed a professional website and backend for a climate organisation, increasing monthly engagement by 1300% and connecting them with 30+ international clients
- *Stack:* Next.js, React, Vercel, Supabase

**Fantasteroids - Published Video Game on Steam**

- Managed the full development lifecycle of a retro-arcade game to a successful launch on the Steam marketplace with 300+ players and 90% positive rating
- *Stack:* Godot Engine, Steamworks API, GDScript, Marketing

**favourites.me - Open-source media manager like Letterboxd** - [favourites.me](https://favourites.me)

- Developed an open-source media library to track films, books, and games, consolidating data from multiple sources into a single application
- *Stack:* Typescript, React, Google Drive API, Google Cloud Platform (GCP)

**ESA AstroPi Challenge**

- Wrote a Python image-analysis program which ran on the International Space Station (ISS) and processed 200+ images daily to calculate the percentages of land, sea, and cloud cover from orbit
- *Stack:* Python, OpenCV, NumPy