

INDIGO NOLAN

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📍 London / Southampton

EDUCATION

University of Southampton <i>MEng Computer Science Predicted First</i>	Southampton, UK Expected 2028
<ul style="list-style-type: none">Academics: A*A*A at A-Level, 11 A*s at GCSE.	

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL, HTML/CSS
Frameworks: Next.js, React, React Native, Node.js, GDScript
DevOps & Tools: Docker, Git, Vercel, Supabase, PostgreSQL, MongoDB, Linux/Bash, Google Cloud Platform (GCP)
Spoken Languages: English (Native), French (B2), Russian (B2), German (B1)

EXPERIENCE

University of Southampton <i>Research Assistant</i>	Jan 2026 Southampton, UK
<ul style="list-style-type: none">Collected data mapping nighttime urban environments, integrating quantitative sensor data with qualitative metrics.Used hardware (luxmeters, GPS, spectrometers) to capture spatial light/color data, correlating it with user experience.	
Southampton University Students' Union <i>School President (Electronics & Computer Science)</i>	June 2025 – Present Southampton, UK
<ul style="list-style-type: none">Elected representative for 2,800 students; chaired the committee and liaised directly with senior faculty for curriculum improvements.Architected structural changes to the voting system, successfully fixing past under-representation issues.	
Shell AI <i>Summer Intern</i>	July 2023 London, UK
<ul style="list-style-type: none">Analyzed machine learning models for optimizing real-time oil drilling operations to improve efficiency and safety.Co-designed and prototyped a social justice mobile application, pitching the UI/UX architecture to senior Experience Design leads.	

PROJECTS

CashCat <i>Next.js, React, PostgreSQL, REST</i>	cashcat.app
<ul style="list-style-type: none">Full-stack financial application implementing zero-based budgeting principles with complex state management.	
Climate Stories Library <i>Next.js, Supabase, Vercel, Google Cloud Platform & APIs</i>	climatestorieslibrary.com
<ul style="list-style-type: none">Designed a professional website and video backend for a climate organisation, increasing monthly engagement by 1300% and connecting them with 40+ international clients.	
The Political Playground <i>React, Custom Simulation Engine</i>	pp.indigo.spot
<ul style="list-style-type: none">Developed a complex election simulation engine featuring coalition mathematics and dynamic voter bloc logic.Designed an interactive UI similar to "The Campaign Trail" to gamify democratic education.	
Head and Heart <i>React, Convex, RESTful APIs</i>	headandheart.app
<ul style="list-style-type: none">Created a private media manager to track your favourite films, shows, books, board games, as a privacy and local-focused alternative to Letterboxed.	
Fantasteroids <i>Godot, Steamworks API, GDScript</i>	Fantasteroids on Steam
<ul style="list-style-type: none">Managed the full development lifecycle of a retro-arcade game, achieving a successful Steam marketplace launch with 300+ players and 90% positive ratings.	
ESA AstroPi Challenge <i>Python, OpenCV, NumPy</i>	
<ul style="list-style-type: none">Wrote an image-processing algorithm deployed on the International Space Station to calculate cloud/land cover from orbit, processing 200+ images daily with high efficiency.	