

# Nathan Jones

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## Education

### Durham University (DU), Department of Computer Science

B.Sc in Computer Science, Specialization in AI/ML, Expected First Class Honors (approx. 4.0 GPA)

Awards and Achievements: Washington State Scholar (Top 10% GPA), Salutatorian

Durham, UK

Graduation June 2027

## Technical Experience

### AI Full-Stack Developer @ Feasibly - UK AI/Energy Startup | 05/25 - 01/26 (*Promoted from Intern to Developer, 07/25*)

- Shipped a production full-stack platform using **React, TypeScript, Python, Docker, and AWS (ECS/RDS)** in **4 weeks**.
- Owned and identified product features and issues, designed systems for scale, utilizing agile SDLC for collaborative scrum standups. Integrated **Linear, Github, Slack, and GitHub Actions** for code reviews, tests, & **CI/CD** pipeline.
- Identified robustness and efficiency issues and championed implementation of a parallelized AI agent, reducing runtime by **85%**, token cost by **90%**, & cloud cost by **50%**, transforming dysfunctional AI to robust launch product in **48 hours**.
- Created AI Agents w/ **LangGraph & AWS Bedrock** for Agentic GIS web app, automating data pipelines from **AWS RDS to Redshift** using Glue Jobs for Agentic Knowledge base, reducing cloud costs via serverless pricing.
- Developed and led technical interview and onboarding of Founding Engineer, teaching tech stack and codebase.

### Founder and CTO @ Basely Technologies - *Building developer-first hiring and dev tools in an AI driven world.* 12/25 - Present

- **Founded** startup Basely, established business vision to modernize the technical hiring cycle, create brand and website
- Outreached with companies and VCs to get funding and contract to develop technical evaluation software and dev tools.
- **Built Basely Connect MVP:** A portfolio website using **Go, Next.js, React, TS, PostgreSQL** and **OpenTofu** to allow candidates to show demos and code snippets of their projects and build their portfolio website without paying hosting.
- Using Basely Connect, candidates' portfolios are matched with companies for jobs, pre-vetting candidates.
- **Built Basely ContainerView MVP:** A Sandbox Technical Evaluator using **Docker, VScode Tunnels, OpenTofu(GCP), React, and TS** to evaluate developers skills in building and deploying apps in real time in an isolated environment.
- **Architected the Basely MVA:** A modular platform using **Next.js, Python, and AWS Lambda** to ingest legacy data and optimize resource allocation, developed react frontend library for modern intuitive client interface to manage solutions.

### Project Lead and Lead Full-Stack Developer - IBM Durham University Capstone Project

10/25 - Present

- Led client communication, agile meetings, SDLC, collaborated with stakeholders to determine requirements and vision.
- Led full stack development, building AI features using **WatsonX, AR using Unity, Python** backend and SQL DB using **IBM Cloud**, and frontend using React Native. Built CI/CD pipeline with **pyTest**, build tests, and code reviews.

## Technical Projects

### Astrium - AI-Powered Productivity Suite Project (*Flutter, Python, Java, ML, Docker, SQL, GCloud, Git*)

7/24 - 11/25

- Built AI productivity suite project, onboarded developers, managed end-to-end cycle, networked for **18 beta users**.
- Built the MVP and CI/CD pipeline with reviews, featuring a **Flutter** frontend and microservices backend (**Python, Java, LangGraph, PyTorch, Cuda, Docker**), deployed with **Linux Server, SQL DB, & GCP Firestore & Functions**.

### LoRA Optimized LLM w/ Windows APP (*Python, Cuda, PyTorch, Hugging Face, C++, Qt*)

07/25 - 11/25

- Fine-Tuned Open Source LLM in coding instructions using low rank adaptation (LoRA) on Python, PyTorch, CUDA, and Transformers, used model with C++/Qt chat interface, deployed to Azure with Azure VM and Durham NCC.

## Leadership Experience

### Financial Officer & Treasurer | DurHack, DU Computer Science, DU Esports & others

02/25 - Present

- Developed a **VBA** script to streamline bookkeeping across 6 societies' budgets totaling **~\$120k**, reducing admin time by **5 hours** and eliminating manual data entry errors.

### Lead Instructor | Code Camp UK

10/25 - Present

- Led teaching assistants and taught classes of 20+ primary school students in **JavaScript** coding fundamentals.

## Technical Skills

**Programming Languages:** Javascript, Typescript, Python, Java, Dart, C++, GoLang, C, SQL

**Cloud Platforms:** AWS (ECS, RDS, Amplify, Bedrock, Aurora, Redshift, Lambda), Google Cloud, Azure

**Developer Tools:** Git, Github Actions, Docker, Postman, Asana, Linear

**Frameworks & Libraries:** Flutter, React, React Native, LangGraph, PyTorch, NumPy, Cuda, Express, Next.js, Node.js

**Certifications:** AWS Cloud Practitioner, IBM AI Foundations, IBM Enterprise Design Thinking Practitioner

