

abigail phoebe

senior developer & research scientist

based in the netherlands

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- javascriptpythondockerjavaback-endstripeleadershipmysqlresearch
- postgresqrediscloud computingfastapilinuxgitaws ci/cdrust
- full stackmathematicsaimongodbstartupsrest apisscalabilitygcp

education

2025-'27	Masters Degree	Eindhoven University of Technology
	Master of Science in Computer Science and Mathematics Thesis topic: Computational astronomy on Euclid data in collaboration with the European Space Agency.	
2022-'25	Bachelors Degree	Swansea University
	First with Honours; Bachelor of Science in Computer Science and Mathematics Thesis topic: Visual computational astronomy	
2021-'22	IBM Scholarship	Qubit by Qubit

Quantum Computing and Advanced Mathematics scholarship awarded by IBM

Scrupp	Founder, Sole Developer
March 2020 - Present	
Founded a large scale high integrity system for inter-community relationship management tooling using asynchronous Python, Stripe, Redis, MySQL & Docker. 30,000,000 cumulative users across 30,000 communities.	

Abyss (Student Team)	Navigation Engineer
March 2026 - Present	
Designing and developing the navigation system for the Abyss submarine. Part-time, hybrid in Eindhoven, Netherlands.	

Ascending AI	Research & Development
November 2025 - May 2026	
Doing research and development at an AI startup as a senior developer on multiple disciplines including (but not limited to): autonomous AI agents, large scale systems design, high performance computing, data modeling, and low-level database engineering, development & design.	

Maki	Senior Software Developer
March 2024 - November 2025	
Working on large scale community management tooling with 150 million users across 1.5M communities. Heavily utilising tools such as MongoDB, Redis, Docker & Python. Built out several APIs, CRMs & CI/CD pipelines.	

Swansea University	Laboratory Technician
September 2024 - July 2025	
Worked as a laboratory technician, assisting students with lab assignments and contributing to grading responsibilities.	

HeadScratchers	Founder & Developer
June 2023 - August 2025	
Built the HeadScratchers' product from the ground up, including systems design, backend web infrastructure, database management & UI/UX design.	

BeGeekedLabs	Software Developer
March 2023 -December 2024	
Contract Software Developer for BGL, providing expertise in large scale systems design for an advertising platform, building out and designing internal & customer facing tooling for a streamlined onboarding flow.	

swanHack Hacking Society	Tech Admin
September 2023 - July 2024	
Elected by peers to be the tech administrator for the Swansea University Student Union hacking society, swanHack. Gave technical talks on programming, and led practical workshops and events.	

PNLY	Quality Assurance Tester
January 2023 - February 2025	
Quality assurance for large scale systems used by Warner Media Group, NASCAR and Discord provided by PNLY.	

Shapes AI	Software Developer
September 2022 - December 2022	
Contracted by Shapes AI for 4 months to aid the core development team during a large-scale upgrade to their codebase and infrastructure, providing vital insight, guidance, and support throughout.	

Swansea University Students' Union	Student Representative
September 2022 - July 2025	
Elected by peers to serve as a student representative for three years, and a subject rep for one.	

LunaPhoebe	Founder, CTO
June 2018 - Present	
Freelance contract full-stack developer for 300+ clients across the world, solving unique challenges and ensuring customer satisfaction in a wide range of fields from fintech to entertainment.	

STEM Curriculum	Student Advocate
2020	
Successfully campaigned for a new iGCSE subject focused on STEM activities and awards to be added to the schools curriculum, which is still offered today.	

CREST Club	Founder
2018	
Founded a CREST club at my school while taking my iGCSEs which supported students through their bronze, silver, and gold CREST awards.	

awards

Bachelor's Degree, First Class with Honours & Bachelor's Thesis, First Class with Honours
* The highest possible academic award for graduate students in the UK
Fly a Rocket!
Completed the prestigious Fly a Rocket! educational program, ran in partnership with the European Space Agency, Andøya Space & The Norwegian Space Agency, achieving a final grade of 85%.
Maths & Physics Gold British Olympiad Awards
Bronze, Silver and Gold CREST Project Awards

projects

Scrupp https://scrumpbot.com A Discord bot in 30,000 servers with a reach of 40 million cumulative users, focusing on anti-abuse and community management.	Calascii https://calascii.uwu.gal An open source, infinite collaborative ascii artboard that anyone can join and create on!
Signal Translate https://github.com/ijsbol/signal-translate A fork of the Signal messaging app that implements a local translation LLM model for real-time translations.	SVGLang https://github.com/ijsbol/svglang Initially a university project, SVGLang is an open source feature-complete domain-specific language for creating and manipulating SVG graphics.
iCloud Reminders Viewer https://github.com/ijsbol/icloud-reminders-viewer A simple tool to view and manage iCloud Reminders online, this powers my public movie and tv show watch list.	PyGeoLocate https://pypi.org/project/pygeolocate/ A Python library for geolocation, used by tens of thousands of developers worldwide.
HTTPCord https://pypi.org/project/httpcord/ A Python library for non-gateway Discord HTTP interaction clients.	Osmium Chat Python SDK https://osmium-chat.readthedocs.io/en/latest/ A Python SDK for the Osmium Chat application, providing a simple interface for interacting with the chat API.
Youtube Music Desktop SDK https://pypi.org/project/ytmdpi/ A Python library for the Youtube Music Desktop Application.	-50 other OSS Projects https://github.com/ijsbol?tab=repositories Many more examples on my GitHub, including a Spotify now playing API mirror.