

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-'27Masters DegreeEindhoven 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-'25Bachelors DegreeSwansea University
- First with Honours; Bachelor of Science in Computer Science and Mathematics
- Thesis topic: Visual computational astronomy
- 2021-'22IBM ScholarshipQubit by Qubit
- Quantum Computing and Advanced Mathematics scholarship awarded by IBM

experience

- ScrumpFounder, 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 AIResearch & Sr. Developer (RnD)
- 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.
- MakiSenior 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 UniversityLaboratory Technician
- September 2024 - July 2025
- Worked as a laboratory technician, assisting students with lab assignments and contributing to grading responsibilities.
- HeadScratchersFounder & Developer
- June 2023 - August 2025
- Built the HeadScratchers' product from the ground up, including systems design, backend web infrastructure, database management & UI/UX design.
- BeGeekedLabsSoftware 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 SocietyTech 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.

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

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.

Youtube Music Desktop SDK

<https://pypi.org/project/ytmcpy/>

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.