

JOÃO ALVIM

 github.com/jotaalvim  joaoalvim179@proton.me

 Braga, Portugal  +351 934662832  jotaalvim.github.io

EDUCATION

Secondary Education in Sciences Escola Secundária Alberto Sampaio	<i>September 2017 – June 2020</i>
Secondary Education in Music – 8th Grade in Piano Conservatório Bomfim	<i>September 2017 – June 2020</i>
Master's in Computer Engineering University of Minho	<i>October 2020 – October 2025 (5th year)</i>
Erasmus - Master's in Computer Engineering Ghent University, Belgium	<i>October 2024 – March 2025 (1 semester)</i>

WORK EXPERIENCE

Summer Internship at DESY – German research center operating particle accelerators Developed a monitoring dashboard for ASAPO – high performance distributed streaming platform.	<i>Summer 2024, 2 months</i>
Programming Tutoring to Undergraduates Taught Haskell and C to 4 and 5 students, Natural Language Processing with Python to 1 student, and statistics with R.	<i>2022 – 2025</i>
Coach at Chess Club, University of Minho	<i>2022 – 2024</i>
Elementary Chess Teacher	<i>Sep 2023 – Jun 2024</i>
Technician in High-Altitude Work	<i>2 week</i>
Monitor at Diver Lanhoso Adventure Park	<i>2 weeks</i>

PERSONAL PROJECTS (AVAILABLE ON GITHUB)

- QForms** – QuickForms is a self-hosted local form generation tool designed as an alternative to proprietary services like Google Forms, I've used Flask and my Python module is on pypi.
- shipslogs** – Python tool that simplifies keeping records of screenshots during events.
- Chess-Heatmaps** – Represent chess moves as heat maps in Python.
- cbirds** – Python module demonstrating combinator birds in point-free style.
- chessredditstories** – Automated content creation that generates reels combining chess gameplay with Reddit stories using Python.
- Instagram Puzzles Generator** – Automates generation of chess puzzle images for Instagram.
- datalist** – Implementation of all functions in Haskell's `Data.List` module.
- personal website** – Website made with html and bootstrap, with my own static blogs generator running on a github action

VOLUNTEER EXPERIENCE

Co-Founder & Member – Camerata Minhota (Chamber Music Group, University of Minho)	<i>2023 – Present</i>
Mentor – Coderdojo Braga	<i>2020 – 2023</i>
Collaborator – Recriativo do Núcleo de Estudantes de Engenharia Informática	<i>2021 – 2022</i>

TECHNICAL SKILLS

Languages: Portuguese (fluent), English (B2 exam)
Programming: Haskell, C, C++, Python, Java, TypeScript, JavaScript, \LaTeX , Machine Learning, SQL, Linux, VIM

AWARDS

2nd place – SEI 2021 Hackathon ([shipslogs](#))

1st place – SEI 2025 Programming Competition

EXTRACURRICULAR ACTIVITIES

Led a Cat Rescue Mission – Rescued a cat trapped for six days in a 15-meter tree. [News Article](#)

Federated Athlete – Chess and Climbing

Hackathon Participation – Bugsgyte 2023 (Academic Community tool for exchanges of services), Bugsgyte 2025 (Accelgrading - AI tool to help teachers generating assignments)

deoogle – I self-host my own files/photos driver, calendar at home using nextcloud for privacy and freedom. From google I only use youtube, if you know any good alternatives please let me know.

Regex Crossword – Top 94 user of the platform

Conference Attendance – IFL 2023 (Implementation and Application of Functional Languages)