JOÃO ALVIM

 github.com/jotaalvim   ✉ joaoalvim179@proton.me

 Braga, Portugal   ☎ +351 934662832   % jotaalvim.github.io

EDUCATION

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

TECHNICAL SKILLS

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

WORK EXPERIENCE

Summer Internship at DESY – German research center operating particle accelerators   *Summer 2024, 2 months*
Developed a monitoring dashboard for ASAPO – high performance distributed streaming platform.

Programming Tutoring to Undergraduates   *2022 – 2025*
Taught Haskell and C to 4 and 5 students, Natural Language Processing with Python to 1 student, and statistics with R.

Coach at Chess Club, University of Minho   *2022 – 2024*

Elementary Chess Teacher   *Sep 2023 – Jun 2024*

Technician in High-Altitude Work   *2 week*

Monitor at Diver Lanhoso Adventure Park   *2 weeks*

VOLUNTEER EXPERIENCE

Co-Founder & Member – Camerata Minhota (Chamber Music Group, University of Minho)   *2023 – Present*

Organizer – Coderdojo Braga   *2020 – 2023*

Collaborator – Recriativo do Núcleo de Estudantes de Engenharia Informática   *2021 – 2022*

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, python module on pypi.

shipslogs – 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.

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

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)

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