

André Jesus

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EDUCATION

Técnico – Universidade de Lisboa

Lisbon, Portugal

MSc in Computer Science and Engineering – Final Grade: 18/20

Sep. 2023 – Oct. 2025

- Specialisations in **Distributed Systems** and **Cybersecurity**
- Dissertation: “*Serverless Snapshot Orchestration*” – scored 19/20; designed and implemented a snapshot orchestration system in vHive in collaboration with NTU Singapore
- Key courses: Distributed Applications, Cloud Computing & Virtualization, Parallel & Distributed Computing, Software Security, Forensics Cyber-Security, Highly Dependable Systems, Deep Learning, Data Science

Instituto Superior de Engenharia de Lisboa

Lisbon, Portugal

BSc in Computer Science and Engineering – Final Grade: 18/20

Sep. 2020 – Jul. 2023

- Fundamentals of algorithms & data structures, software engineering, databases, computer networks, operating systems, and distributed systems
- Student representative in the Pedagogical Council (2022–2023)

EXPERIENCE

Systems Engineer (Software Engineer Intern → Full-time, Sep. 2024)

May 2024 – Present

Cloudflare

Lisbon, Portugal

- Member of the **Cloudflare Radar** team, building and maintaining the platform’s API and website that surfaces global Internet traffic trends and insights
- Designed and shipped the **Radar MCP Server**, enabling AI assistants to query real-time Radar data programmatically
- Built full-stack features across DNS analytics, Certificate Transparency, AI usage insights, TLD insights, and Internet services rankings, spanning FastAPI, GraphQL, React, and Remix
- Contributed frontend work to the **AI Crawl Control** product on the Cloudflare dashboard, improving bot management UX for customers
- Drove CI pipeline migrations, Infrastructure-as-Code adoption (Terraform), high-availability improvements, and SEO optimisations across the platform
- Mentored a software engineering intern through the full lifecycle of a cross-cutting API and frontend feature
- Co-authored several Cloudflare blog posts covering new Radar capabilities shipped to production

Teaching Assistant

Oct. 2022 – May 2024

Instituto Superior de Engenharia de Lisboa

Lisbon, Portugal

- Teaching assistant for **Algorithms & Data Structures**, **Introduction to Web Programming**, and **Software Laboratory** (semesters 2–4 of the BSc)
- Led weekly practical lab sessions and provided one-on-one student support during office hours
- Maintained Linux server infrastructure used by students for project development and evaluation
- Assisted with the design and grading of exams and assignments

PROJECTS

Cloudflare Radar | *TypeScript, React, Remix, Cloudflare Workers, Python, FastAPI, GraphQL* May 2024 – Present

- Contributed to radar.cloudflare.com – a globally used platform surfacing Internet trends, traffic anomalies, and security data
- Shipped features spanning DNS, Certificate Transparency, AI adoption metrics, and TLD analytics

vHive – Serverless Snapshot Orchestration | *Go, Docker, Kubernetes, Firecracker* Aug. 2024 – Oct. 2025

- MSc thesis project in collaboration with NTU Singapore; contributed to the vHive open-source serverless framework
- Designed a distributed snapshot orchestration system with local caching and a snapshot-aware scheduler, significantly reducing cold-start latency in serverless functions

PHYLOViZ Web Platform | *TypeScript, React, Java, Spring, Docker, MongoDB*

Feb. 2023 – Jan. 2024

- Contributed to [phyloviz](https://phyloviz.com), an open-source modular web platform for phylogenetic analysis with distributed computation support

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Go, Kotlin, Java

Backend: FastAPI, Node.js, GraphQL, Spring, PostgreSQL, MongoDB

Frontend: React, Remix, Astro, Vite, HTML/CSS

Infrastructure & DevOps: Cloudflare Workers, Docker, Kubernetes, Terraform, Google Cloud Platform, GitLab CI, Prometheus, Grafana, Sentry, Firecracker

Areas: Distributed Systems, Serverless, Edge Computing, Cloud Infrastructure, Full-Stack Web Development

PUBLICATIONS & WRITING

Cloudflare Blog – Bringing more transparency to post-quantum usage, encrypted messaging, and routing security
Feb. 2026

Cloudflare Blog – From .com to .anything: introducing Top-Level Domain (TLD) insights on Cloudflare Radar
Oct. 2025

Cloudflare Blog – Introducing new regional Internet traffic and Certificate Transparency insights on Cloudflare Radar
Sep. 2025

TALKS & SPEAKING

Empowering AI with MCP | *AI Frameworks Meetup, Cloudflare Lisbon* May 2025

- Introduced the Model Context Protocol (MCP) and demonstrated building and deploying a Remote MCP server on Cloudflare

HONORS & AWARDS

Merit Scholarship – DGES, Directorate General for Higher Education Nov. 2024

Best Student Award, BSc CSE 2022/2023 – ISEL / Santander Oct. 2024

Merit Scholarship – DGES, Directorate General for Higher Education Sep. 2022

Santander Award – ISEL / Santander Oct. 2020