

# DIOGO SANTOS

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## ABOUT ME

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Final year Computer Science and Engineering student from Instituto Superior Técnico, specializing on Distributed Systems. Working on my master's thesis about BFT consensus algorithms and Ethereum's Distributed Validator Technology, merging academic theory with cutting-edge tech. Interested in working with backend technologies and infrastructure configuration/maintenance.

## PROFESSIONAL EXPERIENCE

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### First Stage Researcher

May 2024 - Today

INESC ID

*Remote*

Tech Stack: Golang + Docker

- Implemented Alea-BFT, a BFT consensus algorithm, to replace QBFT in a Distributed Validator Client for Ethereum. Collaboration between INESC ID and Obol Labs Inc. [Link](#).

### Full Stack Developer - Research Initiation Grant

Set 2022 - May 2024

Instituto Superior Técnico (IST) - Department of Computer Science and Engineering

*Lisbon, Portugal*

Tech Stack: Vue.js (Typescript) + Spring Boot (Java) + MariaDB + Docker

- Developed an application that automates and streamlines the dissertation defense scheduling process, reducing reliance on manual labor.

### Software Engineer Intern

Jul 2023 - Aug 2023

Jungle AI

*Lisbon, Portugal*

Tech Stack: Python + AWS (S3 and SQS) + Kubernetes

- Developed a parallel data processing workflow utilizing the Ray framework alongside AWS services such as S3 and SQS and deployed it on Kubernetes.

### Outsourcing Consultant

Out 2021 - Mar 2022

JUNITEC and PSK Analytics

*Lisbon, Portugal*

Tech Stack: React.js (Javascript) + Flutter + AWS (Amplify)

- Built a mobile app for sport data collection which enables football players to track their progress and improve on multiple skills such as dribble, vertical jump, etc. Developed a back office for data and account management.

### Front-End Developer Intern

Jul 2021 - Sep 2021

Spin.Works

*Lisbon, Portugal*

Tech Stack: Angular.js (Javascript) + Mapbox GL JS

- Built a PWA prototype to expand the company's product usage to mobile applications providing customers with specific tools to aid precision farming.
- Worked with GPS data, geographical data (GeoJSON) and the Mapbox library for map visualization.

## EDUCATION

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**Master of Computer Science and Engineering**, Instituto Superior Técnico

2022 - Expected Oct 2024

GPA: 18/20 — Academic Merit Diploma (2022/2023)

**Bachelor of Computer Science and Engineering**, Instituto Superior Técnico

2019 - 2022

GPA: 17/20 — Academic Merit Diploma (2019/2020, 2020/2021, 2021/2022)

## PERSONAL PROJECTS

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**Nvolopi** Developed a microservices based file transfer system that allows users to upload files and share them with other users. Built with React.js, Express.js and MongoDB. Deployed on GCP as a Kuberbetes cluster with automatic pod and node scaling using Terraform. Monitored with Istio's service mesh, Prometheus and Grafana. [Link](#).