Bernardo Pereira *Computer Science & Engineering Student*

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○ https://github.com/BernardoPe in linkedin.com/in/bernardope

I'm a highly motivated student of Computer Science and Engineering with a strong inclination towards software development. I wish to apply my knowledge to fix actual problems, develop innovative projects, and enhance my technical and problem-solving skills on a continuous basis.

Education

Instituto Superior Técnico	09/2025 – 07/2027

MSc, Computer Science and Engineering

Instituto Superior de Engenharia de Lisboa	09/2022 – 07/2025

Bsc, Computer Science and Engineering
Grade: 17/20

Professional Experience

Sky	07/2025 – 08/2025

Apprentice Developer – xTV Devices & Tech Team
- Built a **Deeplink Testing Tool** using **Lightning.js** over two months, streamlining workflows across Sky teams.
- Enabled **multi-device testing** of deeplinks for platforms including *Peacock*, *SkyShowtime*, *NOW*, and *Showmax*.
- Gained practical **front-end experience**, adhering to *agile methodologies* and *version control best practices*.

Projects

HtmlFlow 🔗	06/2025 – Present

Java/Kotlin DSL for HTML
- Active contributor and maintainer of HtmlFlow, a DSL for building HTML in Java/Kotlin.
- Working on integration with the http4k 🔗 framework, as well as Hot Reloading support for views.

Non-Blocking Progressive Server-Side Rendering Benchmark 🔗	01/2025 – 07/2025

Final Project – BSc in Computer Science and Engineering (20/20)
- Benchmarked **PSSR** in Kotlin using **Spring MVC**, **WebFlux**, and **Quarkus** with reactive, coroutine, and virtual thread approaches.
- Demonstrated how **Java Virtual Threads** enable non-blocking rendering with **external DSL** engines.
- Achieved **comparable scalability** to non-blocking models with simpler synchronous API code.

Instant Messaging 🔗	10/2024 – 01/2025

Fullstack Messaging Application
- Built an **Android client in Kotlin** as well as a **web client with React + Typescript** for a real-time channel-based messaging platform.
- Integrated **Server-Sent Events (SSE)** for instant message delivery and updates.
- Consumed a **Spring REST API** with **OkHttp** to handle authentication, channel management, and messaging.

Skills

Languages
Kotlin, Java, Javascript, Typescript, Python, C.

Backend
Spring MVC & WebFlux, RxJava, Quarkus, Express.js, Nginx.

Frontend
HTML, CSS, React, Lightning.js Material-UI, Jetpack Compose, Android.

Databases & Cloud
PostgreSQL, MongoDB, ElasticSearch, Firestore, Google Cloud.

Languages

Portuguese • **English** — C1