



# Miguel Santos | Senior Software Engineer

Cloud-native software engineer with over 7 years of experience delivering scalable web platforms in AWS using TypeScript, Angular, and Node.js. Proven track record in building microservices, leading greenfield projects, and optimizing developer workflows with Docker and CI/CD. Passionate about clean architecture and user-centered design.

*Seeking a senior software engineering role to build innovative, scalable solutions and contribute to impactful cloud-native projects in a collaborative environment.*

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## Work Experience



### Senior Software Developer • Hubexo

Jan 2022 – Present

- Develop responsive cloud-native Web Apps using TypeScript, Angular, Node.js, and Docker on AWS.
- Integrate AI systems into applications to enhance user experience and functionality.
- Design CI/CD workflows to streamline QA deployments.
- Architected and shipped a modular OpenSearch engine with custom indexing and ranking logic.



### Software Developer • Apak Group Limited

Apr 2020 – Nov 2021

- Implemented scalable backend microservices in AWS using TypeScript and Node.js.
- Built frontend applications using .NET/C# integrated with Azure DevOps pipelines.
- Led the delivery of major features for financial proposal settlements.



### Graduate Software Analyst/Developer • Gamma

Jul 2018 – Apr 2020

- Designed and built backend/frontend components using Java, SQL Server, and Apache Struts.
- Improved interoperability via Single Sign-On integration.
- Developed backend services for telecom switching using STAC and PAC codes.

## Education



2014 – 2018

### MEng Computer Systems Engineering

University of South Wales, UK

- Graduated with distinction.
- Master's thesis: designed and developed a CPU architecture for a soft microprocessor.

## Languages

|                   |              |
|-------------------|--------------|
| <b>Portuguese</b> | Native       |
| <b>English</b>    | Bilingual    |
| <b>Spanish</b>    | Intermediate |
| <b>Thai</b>       | Beginner     |

## Technical Skills

**Languages:** TypeScript, JavaScript, Python, Java, C#, Bash

**Frameworks:** Node.js, Angular, Next.js, NestJS, .NET

**DevOps & Cloud:** AWS, Docker, CI/CD, Azure DevOps

**Databases:** PostgreSQL, SQL Server

**Search & AI:** OpenSearch, AI integration (LLMs, embeddings)

## Projects

**Coinflake:** Financial investment tracking app for crypto, stocks, and commodities. Built with Next.js and PostgreSQL, featuring dynamic data visualizations via Lightweight Charts.

**Swapper:** Web app enabling Thai teachers to find swap opportunities for job relocation. Built with Next.js and Tailwind; authentication via NextAuth; deployed on Vercel. 50+ teachers registered. [Website](#)

**Structura:** Experimental meta programming language for structured AI prompts. [GitHub](#)