

André Ferreira

Senior Software Engineer

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PROFESSIONAL PROFILE

- 10 years of experience as a software engineer
- Helping startups build innovative and scalable solutions
- Strong skills in different programming languages, frameworks, and cloud technologies
- Experienced technical leader with skills in software architecture and project management
- Effective people management and team motivation
- Professional certifications in agile development, cloud computing, and blockchain

SKILLS AND INTERESTS

- **Programming Languages:** JavaScript/TypeScript, Python, Solidity, Go, and Rust
- **Web Development:** Node.js, Express, NestJS, React, Redux, NextJS, Django, Flask
- **Backend:** REST APIs, GraphQL, AWS AppSync, microservices, serverless architecture
- **Bitcoin:** Bitcoin Core, Electrum, BitcoinJS, Nigiri, Polar, Lightning Network
- **Web3:** Ethereum, Polygon, Solana, Aragon, Foundry, Hardhat, IPFS, OpenZeppelin, LayerZero
- **Web5:** TBD, DIDs, Verifiable Credentials
- **Database:** PostgreSQL, MongoDB, AWS DynamoDB
- **DevOps:** AWS CDK, Terraform, GitHub Actions, Jenkins, Datadog
- **Containers:** Docker, AWS ECS, Portainer, Kubernetes
- **Other:** Cloud computing, P2P protocols, distributed systems, cryptography, Linux

WORK EXPERIENCE

- **Volkswagen Group Services.** Portugal
 - ✓ **Senior Full Stack Developer** - Aug/2024 - Present - Full-time

Contributed to the development of a full-stack platform to manage and deploy map packages to MAN and Scania trucks.

- Designed a modular GraphQL API with AWS AppSync, using merged APIs to unify independent schemas.
- Implemented resolvers via AWS Lambda (Python); used AWS Powertools to correlate requests across resolvers, enabling traceability with Datadog and X-Ray.
- Created event-driven services triggered by Kafka, handling validation and deployment logic.
- Provisioned infrastructure using AWS CDK: AppSync, Lambda, DynamoDB, permissions, and logging.

- Built a React frontend with Apollo Client and Redux, consuming the GraphQL API to allow teams to release and manage map packages in real time.
- Set up CI/CD pipelines with GitLab, automating tests, packaging, infra deployment, and promoting to dev/staging/prod environments.

➤ **CodeTrends IT Solutions.** Remote

✓ **Software Engineer** - *May/2015 - Present - Contractor*

Delivered complete solutions for clients across fintech, energy, web3, and entertainment sectors.

- At Fohat Corporation, developed an energy contract exchange platform using Django and Python. The system was built on an event-driven architecture, processing buy/sell orders via Kafka and Faust for real-time stream handling. On the frontend, built with React, we used WebSocket connections to push order book updates and trade events to users in real time.
- Across multiple other projects (e.g., 9th Gear, Uility, Exclusible), I used Flask to build REST APIs and Python to develop AWS Lambda functions to implement lightweight, scalable backend services triggered by events, queues, or HTTP requests.
- Built Python services for backend-blockchain integrations, including smart contract interaction and wallet operations.
- Developed data analysis and transformation pipelines using Python and pandas for custom analytics, reporting, and decision-making tools, adapting to the needs of each client and business domain.
- Frequently integrated these services with broader infrastructures using AWS services (Lambda, S3, DynamoDB, API Gateway) and DevOps tools for deployment and observability.

➤ **IntellectEU.** Remote

✓ **Software Engineer** - *Jul/2023 - Jul/2024 - Full-time*

- Development of a Delivery versus Payment process for finance institutions using smart contracts and omnichannel networks
- **Typescript, Solidity, Foundry, Hardhat, OpenZeppelin, Infura, LayerZero**

➤ **Celfocus.** Portugal

✓ **Software Architect** - *Oct/2021 - Mar/2023 - Full-time*

- Blockchain and IoT integration to enable autonomous financial transactions
- Blockchain-powered data and API monetization with secure access and seamless billing
- Defined a secure custody process for managing over \$1M in cryptocurrencies
- Customers: **R3 Corda, Vodafone, Mastercard and Energy Web**
- **AWS, Azure, Serverless Framework, R3 Corda, EnergyWeb, Hardhat, Solidity, Python**

- **Global Alumni.** Remote
 - ✓ **MIT Learning Facilitator** - *Jun/2021 - Oct/2021 - Contract*
 - Mentor of the students enrolled in the [MIT course "Blockchain: Disruptive Technology"](#). (Massachusetts Institute of Technology - Professional Education)
- **Fohat Corp.** Remote
 - ✓ **Tech Lead** - *Dec/2020 - Sep/2021 - Full-time*
 - Leadership of the development of a central counterparty platform for energy trading
 - **R3 Corda, Kotlin, Spring Boot, AWS**
 - ✓ **Head of Technology** - *Dec/2019 - Nov/2020 - Full-time*
 - Manager of the software development team
 - **SCRUM, Agile processes, project and people management**
 - ✓ **Software Engineer** - *Feb/2019 - Nov/2019 - Full-time*
 - Development of an energy trading contracts platform
 - Development of a decentralized energy trading exchange with ERC-20 tokens
 - **Python/Django, React/Next.js, TypeScript, GraphQL, PostgreSQL, Auth0, AWS**
 - **Energy Web, Truffle, Web3.js, Solidity, NodeJS/Express, TypeScript, Bootstrap, jQuery, AWS**
- **Jupyter.co.** Curitiba, PR / Brazil
 - ✓ **Full Stack Developer** - *Sep/2017 - Jan/2019 - Full-time*
 - Development of a VC platform to connect startups to investors (ICOs and DAOs)
 - **Truffle, Web3.js, Solidity, Ethereum, NodeJS, Express, MongoDB, VueJS**
- **NegocieCoins.com.br.** Curitiba, PR / Brazil
 - ✓ **Full Stack Developer** - *May/2015 - Oct/2017 - Full-time*
 - Contributed to the development of one of Brazil's first cryptocurrency exchanges
 - **Bitcoin, C#, .NET, SQL Server, HTML/CSS/JavaScript, Bootstrap, jQuery**

EDUCATION

- **Associate Degree in Internet Systems**
Positivo Technology Center - Curitiba, Brazil - 2014 - 2016
- **Bachelor's Degree in Social Communication, Advertising, and Marketing**
UNINTER - Curitiba, Brazil - 2009 - 2012

LANGUAGES

- **Portuguese** (Native), **English** (Advanced), **Spanish** (Basic)

PERSONAL PROJECTS

- [Liberdade para Aprender](#) - Blog to share knowledge about homeschooling and education
- [Learn with Me](#) - Guide to learning software engineering concepts, languages, and tools
- [Bitcoin Core Node Setup](#) - Resources for setting up and managing a Bitcoin Core node
- [Bitcoin Core REST API](#) - REST API for Bitcoin Core RPC methods

CERTIFICATIONS

- **Corda For Business Professional**, R3 - 2022
- **Corda Certified Developer**, R3 - 2022
- **Certified Ethereum Developer**, Consensus - 2022
- **Scrum Foundation Professional Certificate (SFPC)**, CertiProf - 2020
- **Fundamentals Online Workshop**, Management 3.0 - 2020

COURSES

- Tech Week for Seniors, **Full Cycle**, 2025
- Introduction to Observability, **Datadog**, 2025
- Digital Transformation with Google Cloud, **Google Cloud** - 2023
- Lightning Network Seminar, **Vinteum**, 2022
- Bitcoin Core Seminar, **Vinteum**, 2022
- Solana Blockchain Developer Bootcamp, **Chainlink**, 2022
- Docker - Full Cycle Acceleration Program, **Full Cycle**, 2021
- Software Architect Bootcamp, **IGTI**, 2021
- Machine Learning Fundamentals Bootcamp, **IGTI**, 2021
- Google Cloud Platform Essentials, **Google** - 2020
- Building RESTful APIs with Flask, **LinkedIn Learning**, 2020
- Creating Your IT Strategy, **LinkedIn Learning**, 2020
- Learning Apollo (GraphQL), **LinkedIn Learning**, 2019
- AI For Everyone, **DeepLearning.ai** - Coursera, 2019
- Google Cloud Platform Essentials, **Google Cloud Training**, 2019
- Angel Investor Training Course, **Angel Education**, 2018
- Ethereum Blockchain Developer: Build Projects Using Solidity, **Udemy**, 2017
- Client Needs and Software Requirements, **University of Alberta** - Coursera, 2017
- Software Processes and Agile Practices, **University of Alberta** - Coursera, 2015

ACTIVITY & MEDIA

- **Speaker:** Blockchain, The Future of P2P Economy, **SATADS**, 2018 & 2019
Presentation: <https://bit.ly/2SNNxTc>
- **Speaker:** Good Practices in Smart Contracts Development, **#TheDevConf 2018 & 2019**
Presentation: <https://bit.ly/2FjzYCX>
- **Speaker:** Blockchain: The Future of P2P Economy, **Conecta Sebrae**, 2017
Video: <https://bit.ly/2QRIFKi>
- **Co-Organizer:** Blockchain Meetup Curitiba, Sep/2017 - Present
Meetup Group: <https://bit.ly/2QnQgRH>