

Allan Ferreira

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SUMMARY

Experienced software developer with over 19 years of expertise in designing, developing, and implementing robust software solutions. Proven ability to work with a wide range of technologies, including Python, C#, React, AWS cloud services, Machine Learning, and Large Language Models. Skilled in data interoperability, architecting scalable systems, and leading technical teams. Strong analytical and problem-solving skills combined with a passion for innovation.

EXPERIENCE

Head of Engineering

SOFA Digital

August 2023 - Current

- Led the migration of 15+ applications from AWS ECS to Kubernetes with AWS EKS, resulting in a 20% reduction in cloud costs.
- Architected and implemented an internal financial royalty calculation system using Python, Machine Learning, Django, Flask, AWS Lambda, and AWS ECS, saving \$60k in 2024.
- Built an AI application using Python, LLM, and AWS Lambda to identify real-time trending topics, analyze content, and suggest relevant movies, enhancing marketing strategies.
- Developed a semantic voice search application with Python, React.JS, AWS ECS, TensorFlow, and Elastic Search for low-latency movie searches.
- Managed a team of 9, including PO and QA, implemented Definition of Ready and Definition of Done, and achieved an 80% improvement in meeting deadlines.

Full Stack Engineer

SOFA Digital
2023

August 2022 - August

- Built data interoperability automations with Python, AWS Lambda, ECS, SQS, and MySQL, increasing data exchange speed by 70%.
- Architected a Data Warehouse using Start Scheme, Python, MySQL, and Pentaho to improve information transparency.
- Migrated the filmelier.com website from PHP to Python + React.JS using Clean Architecture, SOLID principles, and unit tests, increasing feature implementation speed by 70%.
- Implemented CI/CD pipelines in the cloud using AWS CodePipeline, enhancing deployment safety and speed.
- Mentored junior developers in Python and React.JS.
- Created a computer vision application using LLM and Python to identify scenes in movies, improving operational efficiency.

Senior AI Engineer

Sofya
2023

March 2022 - May

- Developed a Healthcare solution using Python, TensorFlow, Machine Learning, and LLMs to identify and classify medical data from images and free text.
- Extracted key information such as chemical compositions, dosages, and allergenic factors, improving medical decision-making.

Professor

UNIMAR University
2024

March 2023 - January

- Taught undergraduate courses on DevOps and Cloud Computing.
- Delivered practical training on AWS, Azure, GCP, Kubernetes, Prometheus, CI/CD, and Docker.
- Equipped students with industry-relevant skills through hands-on projects.

Senior Software Engineer

Bitzar Solutions
2022

March 2022 - August

- Implemented an international Nestle project for data interoperability with affiliates using an Event Driven Architecture (EDA) on Azure.
- Utilized .NET Core, C#, Entity Framework, MySQL, and SOLID principles to build microservices with Azure Functions, Event Hub, and Service Bus.

Professor

FATEC University
2024

March 2023 - January

- Taught undergraduate courses on Python, React, and Cloud Computing.
- Prepared students for the job market through practical classes and projects.

Technical Lead

HCFAMEMA
2023

January 2019 - February

- Led the development of a telemedicine platform in 2 months using Python, Node.js, React.js, and Xamarin/C#.
- Developed a medication temperature control system using IoT, Arduino, C++, Oracle, C#, and React.
- Modeled and built a data warehouse using Star Schema, Oracle, OLAP, and Pentaho.
- Led the development of a Machine Learning application ("Prescription") using ontologies, Python, C#, Oracle, and GraphDB to identify non-supported medications, reducing costs by 30%.
- Built a real-time inventory verification system using C#, Visual Basic, MySQL, and RabbitMQ.
- Trained and led a team of 5 developers, improving their skills in SOLID principles, Clean Architecture, DDD, and Design Patterns.

Software Engineer

FAMEMA
2019

October 2008 - January

- Implemented the first version of hospital and university software using Oracle Forms and Java, migrating from COBOL and improving performance by 50%.
- Developed data interoperability routines with government systems using PL/SQL, improving traceability and reducing healthcare claim denials.
- Built an internal ticketing system using Java and Oracle increasing transparency for workflow.

Software Engineer

Representanet
2019

October 2008 - January

- Conceptualized, designed, implemented, and maintain www.representanet.com.br, a B2B2C platform for sales representatives using C#, ASP.NET, and MySQL.

Software Developer

AFL Sistemas

May 2005 - October 2008

- Built and maintained a payroll system using Clipper, ensuring compliance with laws and regulations for a company with 3500+ employees.
- Developed an intranet using C#, ASP.NET, and Oracle to improve organizational transparency.
- Created ETL routines using PL/SQL for data transformations, ingestion, and integration with legacy systems.

EDUCATION

MSc: Information Science: UNESP - 2024

MBA: Machine Learning: IGTI - 2020

Postgraduate: Web Development: UNIVEM - 2007

BSc: Computer Science: UNIVEM - 2006

CERTIFICATION

- AWS Certified Solutions Architect (SAA-C03)
- Azure Developer Associate (az-204)
- Certified NFT Expert™
- Docker Foundations Professional Certificate
- Professional Scrum Master™ I (PSM I)

LANGUAGES

Portuguese - Native or bilingual proficiency
English - Intermediate Proficiency

SKILLS

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|--------------------|-----------------|---------------------|-----------------|------------------|
| Python | Node.js | C# | React | Django |
| Flask | Test Automation | Agile Methodologies | CI/CD pipelines | RESTful |
| AWS | Azure | GCP | LLM | Machine Learning |
| Clean Architecture | SOLID | Design Patterns | DDD | EDA |