





**Angel Rojas Pacheco**

**Senior Software Development Engineer**

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## PROFESSIONAL SUMMARY

Passionate **Senior Software Developer** with over **16 years of experience** in **algorithm optimization, scalable architecture, and high-performance computing**. Proven expertise in designing and deploying **microservices, distributed systems, and blockchain solutions**. Adept at leveraging **advanced data structures, dynamic programming, and cryptographic techniques** to build robust enterprise applications. Consistently delivers **optimized, clean, and maintainable code** that enhances system performance and scalability.

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## TECHNOLOGY SUMMARY

- **Programming Languages:** Python, C, C++, Java, JavaScript, TypeScript
  - **Technologies & Frameworks:** Django, Flask, FastAPI, NodeJS, ReactJS, Redux, Spring Boot, Celery, Kafka, RabbitMQ, Redis, Protobuf, GraphQL, SQLAlchemy
  - **Cloud & DevOps:** AWS (EC2, S3, RDS, DynamoDB, SQS, SNS, Lambda), Docker, Kubernetes, Jenkins, GitHub, GitLab, GitHub Actions
  - **Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, MSSQL, Oracle
  - **IDEs & Tools:** VS Code, PyCharm, Git, Git Flow, Asana, Trello
  - **Machine Learning & Data Science:** TensorFlow, PyTorch, NumPy, Scikit-learn
  - **OS:** Windows, Linux, macOS
  - **Methodologies:** Agile (Scrum), Microservices Architecture, SOLID Principles, CI/CD, REST, GraphQL
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## PROFESSIONAL EXPERIENCE

**Brasil Seguridad — Senior Software Development Engineer**

 17 Nov 2021 – Oct 2024 | Industry: Financial Assurance


- Designed and implemented **scalable microservices** using **Flask (Python)** and **React (TypeScript)**.
- Optimized **core algorithms**, reducing API response time by **30%**.
- Developed **RESTful APIs** for large-scale distributed systems using **AWS (EC2, DynamoDB, Lambda)**.
- Implemented **GraphQL APIs**, reducing query latency by **40%**.

- **Enhanced performance** using **Redis caching** and **Dockerized deployments** for seamless scaling.

**Technologies:** Python (Flask), JavaScript (React, TypeScript), AWS (EC2, DynamoDB, Lambda), Docker, GraphQL.

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### Porto Seguro — *Senior Software Development Engineer*

 *June 2021 – Nov 2021 | Industry: Financial Assurance*

- Developed **high-performance microservices** using **Spring Boot (Java)** and **Python**.
- **Refactored back-end services**, improving algorithmic efficiency by **25%**.
- Restructured **data processing pipelines**, optimizing core **SQL queries**.
- Designed and integrated **high-speed Redis caching** for real-time data retrieval.

**Technologies:** Spring Boot, Python, AWS, Docker, Redis.

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### BrasilPrev — *Senior Software Development Engineer*

 *Feb 2019 – May 2021 | Industry: Financial Services*

- Designed and optimized **Django-based microservices**, reducing computation time by **40%**.
- Applied **dynamic programming techniques**, enhancing system performance and cost efficiency.
- Improved **database query performance** by implementing **optimized indexing and caching strategies**.
- Built **GraphQL APIs**, streamlining complex queries while minimizing latency.

**Technologies:** Django, Java EE, Oracle SQL, Docker, Redis, GraphQL.

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### Visual Agency — *Senior Software Development Engineer*


 *Nov 2017 – Jan 2019 | Industry: Blockchain & Decentralized Applications*

- Developed **secure blockchain services** using **Python and Django**.
- Integrated **cryptographic algorithms** for data integrity and transaction security.
- Built **scalable, decentralized solutions**, optimizing performance for high-traffic applications.

**Technologies:** Python (Django), Blockchain Libraries, Docker, Redis.

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### **Tigo Telecommunications — *Project Leader (Software Development)***


 *June 2015 – Dec 2016*

- Led **cross-functional teams** to successfully deliver **large-scale software projects**.
- Applied **algorithmic problem-solving techniques** to streamline workflows and **reduce project bottlenecks**.

**Technologies:** Jira, Asana, Trello, Scrum Methodology.

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### **Axxon Consulting — *Software Engineer Consultant***

 *April 2006 – June 2014*

- **Optimized SQL Server databases**, enhancing query performance by **35%**.
- Developed and maintained **enterprise dashboards and reporting tools**.
- Collaborated with clients to implement **custom BI solutions**.

**Technologies:** SQL Server, Visual Studio 2010.

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## **PET PROJECTS**

 **GitHub:** [github.com/ngelrojas/ollama-script-code](https://github.com/ngelrojas/ollama-script-code)

 **VS Code Extension for the Ollama AI Framework (Open Source)**

- Developed a **VS Code extension** integrating **Ollama AI** to enhance AI-based coding workflows.
- Designed **custom AI model selection algorithms**, improving efficiency.
- Published to the **Visual Studio Marketplace**, gaining **[mention any number of downloads, if available]**.

**Technologies:** JavaScript, TypeScript, VS Code Extension API, Ollama AI.

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## ACHIEVEMENTS

### **1st Place & Best Code Award – Hackathon Citi Bank 2023 (São Paulo, Brazil)**

- Built a **real-time financial data processing architecture**, optimizing scalability and **low-latency analytics**.
- Implemented **efficient algorithms**, improving computational efficiency by **over 50%**.

### **Notable Contributions:**

- Spearheaded **performance optimization projects**, leading to **cost savings and improved system efficiency**.
- Successfully delivered **multiple enterprise-level microservices** for **Fortune 500 financial institutions**.

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## CERTIFICATIONS

### **Python for Natural Language Processing – USP (Universidade de São Paulo)**

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## EDUCATION

### **Bachelor's Degree in Software Engineering** **Universidad Mayor de San Andrés** (Graduated: 2005)

- **Focus:** Algorithms, Distributed Systems, Cryptographic Techniques, Data Engineering.

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## LANGUAGES

- **Spanish:** Native
- **English:** Proficient
- **Portuguese:** Proficient