

Juan Abimael Santos Castillo

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Experience

Argentum Inc.

Hybrid

QA Automation Engineer

Santo Domingo, DR

Nov 2021 – Jul 2025

- Collaborated with cross-functional teams, including management and developers, to align testing strategies with project objectives and technical requirements.
- Implemented continuous integration and automated regression testing on Azure, to enhance software quality and reduce release cycles.
- Led API testing for microservices, detecting defects faster before production.
- Participated in Agile sprints, contributing to planning, execution, and retrospectives to ensure efficient, high-quality software delivery.
- Conducted end to end testing strategies along with users to ensure unnecessary or even conflict trigger changes were not released to production, contributing to the health of the system.

Elite Fex Brokers

Remote

Software Developer

Feb 2019 – Sep 2021

- Developed full-stack applications (Node.js, TypeScript, React, PostgreSQL, MongoDB, Redis).
- Deployed microservices on IBM Cloud Kubernetes, enabling seamless scaling.
- Integrated automated regression testing into CI/CD, cutting QA cycle time.
- Enhanced API performance via query optimization and caching.
- Implemented AES-256 encryption & key management to secure sensitive data.

Banco BHD (Bank BHD)

On-site

Backup Analyst

Feb 2019 – Feb 2020

- Designed encrypted disaster recovery systems with offsite backups.
- Executed secure data migrations without downtimes.
- Performed capacity planning & throughput monitoring to prevent outages.
- Managed enterprise storage systems (IBM AS/400) and applied proper tracking of Ultrium 5 tapes to ensure data retention policies were not affected.

Public projects

Mockito - 761 GitHub stars - library for HTTP mocking in Rust

Source: <https://github.com/lipanski/mockito>

- Performance optimization

AFFiNE - 59.5k GitHub stars - Open Source productivity software

Source: <https://github.com/toeverything/AFFiNE>

- Idiomatic Rust contribution

Anomaly-grid - 7 GitHub stars - Rust, Markov Chains, Information Theory

Source: <https://github.com/Abimael10/anomaly-grid>

- Implementing variable-order Markov chains for sequence anomaly detection in finite alphabets that can be used to find anomalies in systems like finance logs, network logs, monitoring, etc. Where specified context matters without supervision.
- Made decisions to scale the architecture over time based on feedback of the thousands of downloads the library has received over time

Licenses & certifications

- **Operations Research** by National Taiwan University - <https://shorturl.at/eA4X5>
- **Statistical Methods for Computer Science** by Johns Hopkins University on Coursera - <https://shorturl.at/7r4ao>
- **Applied Cryptography Specialization** by University of Colorado Boulder - <https://shorturl.at/5Mvb7>
- **Scrum Foundation Professional Certificate** - <https://shorturl.at/eWk1k>

Skills

Languages: Rust, Python, TypeScript, JavaScript, SQL, Oracle PL-SQL, Go.

Frameworks & Libraries: React, Node.js, FastAPI, Django, Axum, Tokio, Mockito, Express, PyTest, Mocha, Jest, Selenium, Katalon, Anchor, NestJS

Developer Tools: Bash, Git, Docker, Kubernetes, IBM Cloud, AWS, Azure, GCP, PostgreSQL, SQL Developer, MySQL, MongoDB, Redis, CI/CD (Jenkins, GitHub Actions, Azure DevOps), Linux, Kali Linux, Arch Linux, Ubuntu, Nmap, Wireshark

Security & Systems: AES-256 / RSA Encryption, Cryptography, Blockchain development, Open Source Scientific Computing, Disaster Recovery, Capacity Planning

Other: Agile, Scrum

Education

Universidad Autónoma de Santo Domingo

Informatics, 2015-2018