

Alvarez Reynolds Bautista Nicolas

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EDUCATION

Salvador University

Bachelor of Science in Information Systems, Graduated with honors

2021 – 2024

GPA: 8.92/10.0

EXPERIENCE

AI & Data Engineering Intern (Japan)

Oct 2025 – Dec 2025

- Selected from 15,000 applicants for a METI-sponsored internship in Japan, full-time and on-site.
- Developed and maintained production-grade social media scrapers for disinformation and trend analysis.
- Reverse-engineered undocumented APIs through network traffic analysis.
- Implemented data collection and processing pipelines using Python, Playwright, and MongoDB.
- Deployed and operated long-running workloads on AWS (EC2) using Docker.
- Improved system stability through refactoring, memory optimization, and crash analysis.
- Collaborated on AI-assisted analysis workflows for data summarization and classification.
- Developed data visualization tools using React.

Independent Pentester at HackerOne ([hackerone.com/ba-reynolds](https://www.hackerone.com/ba-reynolds))

2022 – 2024

- Conducted comprehensive security assessments targeting web applications and APIs.
- Crafted detailed vulnerability reports outlining impact and exploitation steps.
- Developed proof-of-concept exploits demonstrating practical exploitability of findings.
- Leveraged Burp Suite to intercept, analyze, and manipulate HTTP requests for testing access controls.
- Used custom Python tooling to automate repetitive pentesting workflows and vulnerability scanning.
- Collaborated with security teams to clarify issues and verify remediation effectiveness.
- Stayed updated on emerging vulnerabilities and incorporated relevant findings into ongoing security assessments.

PROJECTS

Twitter-like Social Media App | *Go, ReactJS, TypeScript, Tailwind CSS, Shadcn, PostgreSQL, Redis*

- Designed and developed a full-stack social media platform with a Go backend and a ReactJS frontend.
- Implemented a RESTful API with JWT-based access and refresh token authentication.
- Used PostgreSQL for data persistence and Redis for caching frequently accessed data.
- Developed user authentication, tweet feeds, likes, and follower and following features.
- Containerized the entire application using Docker for consistent deployment.

Interactive Relationship Visualizer | *Django, React, D3.js, PostgreSQL, TypeScript, Shadcn, Tailwind CSS*

- Built an interactive web app to create and visualize complex relationships using Venn diagrams and graph views.
- Implemented a graph view with React and D3.js, supporting real-time multi-graph manipulation.
- Created a minimal Django backend for authentication and stored diagrams as JSON blobs in PostgreSQL.
- Enabled publishing, sharing, and undo/redo history for relationship diagrams.
- Integrated image upload and cropping, and state management using Zustand and React Query.
- Used TypeScript, Tailwind CSS, Radix UI, and React Hook Form for frontend type safety, styling, and validation.

Machine Learning/Artificial Intelligence – Multilayer Perceptron | *Python, NumPy*

- Built a feed-forward neural network from scratch using Python and NumPy.
- Implemented sigmoid and ReLU activation functions for flexible training.
- Implemented backpropagation to optimize network parameters and enable learning.
- Achieved 96% accuracy in detecting handwritten digits on unseen 28x28 pixel images.

TECHNICAL SKILLS

Languages: Python, Go, Java, JavaScript, TypeScript, C, Bash

Frameworks: Django, FastAPI, React, Node.js

Developer Tools: AWS (Amazon Web Services), Docker, Nix, Git, Burp Suite, Linux

Databases: PostgreSQL, MongoDB, Redis, SQLite

Web Technologies: HTML, CSS, SQL