

ALDO ISAAC HERNÁNDEZ ANTONIO

Computer Systems Engineer

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ABOUT ME

Computer Systems Engineer with professional experience in Full-Stack development and Cloud architecture. Proven ability to build scalable web applications and optimize complex data systems. Passionate about problem-solving, clean code, and continuous learning. Seeking to leverage my background in AWS, TypeScript, and Python to contribute to high-impact engineering teams.

PROFESSIONAL EXPERIENCE

Optimen

Cloud-Based Integration Developer | Currently

- Architected a cloud-based integration system using AWS SQS and Step Functions for sophisticated message orchestration.
- Applied self-taught expertise to implement a layered architecture with the repository pattern for efficient data flow management.
- Automated infrastructure deployment using AWS SAM and streamlined workflows with Make and Poetry.
- Enhanced system reliability by implementing error notification workflows via AWS SNS and audit logging.

Python Developer | Nov 2023 – Apr 2024 & Dec 2025 – Currently

Flight planning optimization and report generation.

- Collaborated with cross-functional teams to optimize flight planning algorithms using Python, significantly reducing operational costs.
- Demonstrated technical responsibility by building robust test suites with Behave to ensure strict aviation safety compliance.
- Automated complex report generation to streamline data insights for key stakeholders.

Angular, TypeScript & Python Developer | May 2024 – Nov 2025

Outgoing flights luggage visualization module and operations dashboard.

- Developed interactive dashboards in Angular to visualize real-time flight logistics, fostering effective communication within the development team.
- Implemented scalable backend logic using AWS Lambda and Step Functions, optimized for high concurrency.
- Engineered efficient client-side data processing and filtering algorithms using TypeScript to enhance user experience.

Abba Eyes

Full-Stack Freelance Developer | December 2024 – June 2025

Medical management system for ophthalmology operations.

- Architected and deployed a multi-tenant medical management system on AWS, ensuring scalability and security.

- Led critical database migrations from legacy systems to an optimized PostgreSQL structure.
- Established professional CI/CD pipelines to ensure seamless deployment and minimize production errors.

EDUCATION

Universidad de Guanajuato, DICIS | Computer Systems Engineer | Salamanca, Gto. | Aug 2019 – Dec 2023

CBTis 65 Josefa Ortiz de Domínguez | Programming Technician | Irapuato, Gto. | August 2016 - July 2019

CERTIFICATIONS

Machine Learning Specialization | Stanford Online | Dec 2022 – Apr 2023

AWS Cloud Practitioner | AWS | Jun 2026

PUBLICATIONS

[Clasificación temática y automática de imágenes de la red social Pinterest con Deep Learning](#) | *Jóvenes en la Ciencia*

- Developed a deep learning model to automatically classify images on Pinterest by thematic content.

[Identificación del Perfil Demográfico de Influencers en Twitter utilizando Deep Learning](#) | *Jóvenes en la Ciencia*

- Implemented deep learning techniques to predict demographic attributes of Twitter influencers.

[Perfilado demográfico de celebridades en redes sociales](#) | *Jóvenes en la Ciencia*

- Analyzed textual features and word vectors to create demographic profiles for celebrities on social networks.

[Identificación de Usuarios entre Redes Sociales](#) | *Jóvenes en la Ciencia*

- Explored methodologies for cross-platform identity mapping and user identification across social media channels.

SKILLS

Languages: Spanish (native), English (B2).

Programming and Scripting Languages: Python, TypeScript, JavaScript, C, Go.

Front-End and Back-End Development: HTML5, CSS3, JavaScript, Angular, Bootstrap, TailwindCSS | Node.js, Express.js, NestJS, PrismaORM, REST.

Cloud Computing: (AWS) Lambda, S3, IAM, EC2, SAM, Lambda, API Gateway, RDS, EC2, SQS, SNS, Cognito, Amplify.

Databases: PostgreSQL, MySQL, MongoDB.

Machine Learning: TensorFlow, Scikit Learn.

Version Control: Git CLI, GitHub.

LLM: FastMCP, Claude, Cursor, AntigravityCLI, Skills.

Interests: Image processing, Machine Learning, DevOps, Problem-Solving.