Cesar Andres Salazar Pereira

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Profile

Computer Science Master's student at Texas A&M with a strong background in full-stack development, cloud systems, and AI applications. Experienced in leading software projects from concept to deployment, building scalable platforms using LLMs, microservices, and embedded systems.

Skills

Programming Languages: Python, C#, C++, Java, JavaScript, TypeScript, Dart, SQL

Frameworks & Libraries: ASP.NET Core, React, Flutter, FastAPI, Spring Boot, Entity Framework

DevOps & Tools: Git, Docker, GitHub Actions, Firebase, Hangfire, SQL Server Studio

Cloud & Platforms: AWS, Azure, Oracle Cloud, GitHub Pages, Heroku

Data & AI: LLMs, Digital Twins, Data Analysis, Scikit-learn, SBERT

Hardware & Systems: ESP32, Arduino, sensors, actuators, microcontrollers

Experience

Graduate Research Assistant   *College Station, TX, USA*
Texas A&M University – AgriLife Research   *Jan 2024 – present*
- Developing Dr. Cotton, an AI-powered agricultural assistant using Flutter, Django, and RASA.
- Integrating LLMs and digital twin models for yield prediction, PGR advice, and irrigation planning.
- Deploying systems with Docker and presenting findings to stakeholders and conferences.

Software Project Manager   *Santa Cruz, Bolivia*
Universidad Privada de Santa Cruz de la Sierra (UPSA)   *Aug 2022 – Dec 2023*
- Managed multiple tech initiatives for outreach and safety, including a mobile earthquake alert app and a real-time simulation platform.
- Led development and Azure deployment of the TecnoUPSA judging platform (ASP.NET MVC).
- Coordinated cross-functional teams in engineering events and developed systems using Flutter and ASP.NET.

Odoo Implementation Consultant   *Santa Cruz, Bolivia*
Technosys S.A.   *Mar 2022 – June 2022*
- Implemented and customized ERP modules, reducing overhead and manual tasks by 30%.
- Worked directly with stakeholders to model workflows across departments.

Software Engineering Intern   *Santa Cruz, Bolivia*
CRE R.L.   *Dec 2021 – Mar 2022*
- Designed asset control software in C# and ASP.NET; integrated alerts and audit logging.
- Delivered secure, production-ready system with SQL Server backend and web interface.

Projects

Smart Resume Parser
Resume-to-job matching engine with Gemini-based skill extraction and SBERT filtering.
- Uses FastAPI, React, and LLMs; visualizes matches, salary trends, and skill clouds.
- Deployed as a Dockerized web app with database-backed job analysis.

GT Malware Classifier

Real-time PE malware detection API with static feature extraction.
- Built with LIEF and Scikit-learn; Flask API for predictions, metrics dashboard.

Tiluchi

Franchise management platform for real estate listings, clients, and agents.
- Developed with ASP.NET and SQL Server; supports legal agreements and assignments.

Guajojó – Equipment Control System   *Jan 2022 – Mar 2022*

Asset tracking system for loans, donations, and repairs.
- Built with .NET 6, Blazor Server, and SQL Server for internal infrastructure use.
- Enabled file uploads, audit logging, and role-based access using Hangfire and Serilog.

StackO Rail + Remote

Focus stacking rail with ESP32, custom PCB, and companion app.
- WiFi control, 3D-printed case, and Flutter frontend.

Education

Texas A&M University   *College Station, TX, USA*
Master of Science in Computer Science   *Jan 2024 – present*
- GPA: 3.7/4.0

Universidad Privada de Santa Cruz de la Sierra   *Santa Cruz, Bolivia*
Bachelor of Science in Systems Engineering   *Jan 2018 – May 2023*
- GPA: 3.7/4.0

Certifications

Basic Professional Development Certificate   *Texas A&M University*
                                                           Apr 2025

GitHub Foundations   *GitHub*
                                                           July 2024

AWS Academy Graduate – Cloud Foundations   *AWS*
                                                           Dec 2022

Interests

Personal Interests: Photography, tech tinkering, Minecraft modding, language learning, cooking, and traveling