

Professional Summary

Computer Science Engineer with hands-on experience building production systems across mobile, cloud, and machine learning. Delivered a **React Native** warehouse application deployed in real agricultural operations, replacing high-cost legacy systems with a flexible mobile solution that improved accessibility and operational coverage. Designed and implemented **scalable AWS data** pipelines to process large datasets, and developed **deep learning models** achieving 88% accuracy for medical image classification. Proven ability to translate complex, real-world processes into reliable software systems with strong adoption, usability, and measurable impact.

Skills

Languages: Python, JavaScript, SQL, C/C++, Ruby

Frameworks: React, Next.js, React Native, Flask, Django, TensorFlow

Cloud & Tools: AWS (Lambda, S3, EC2, Step Functions, Athena), Docker, PostgreSQL, MySQL, Git, Firebase

Professional Experience

Mobile Application Developer — AgrolInventario | Santiago Chile

June 2025 - November 2025

- Led the end-to-end development of a React Native tablet application for agricultural warehouses, replacing high-cost legacy inventory systems with a more flexible and cost-efficient mobile solution
- Designed UX flows optimized for barcode scanning and rapid data entry, enabling efficient operation across multiple warehouse environments
- Enabled deployment on lower-cost mobile devices, expanding system accessibility across more warehouse locations
- Integrated the application into existing warehouse workflows, ensuring minimal disruption while improving tracking accuracy and operational efficiency
- Conducted on-site field testing and iterative improvements to ensure usability, reliability, and strong user adoption
- Contributed to reducing product loss and expired inventory through improved tracking accuracy and real-time visibility

Software Engineer — AMR Films | Santiago Chile

January 2024 - May 2024

- Contributed to the development and launch of a web platform, delivering user-facing features in a collaborative engineering environment
- Implemented improvements that streamlined internal workflows and increased team productivity
- Applied structured development practices including version control, testing, and iterative delivery cycles
- Participated in feature design and implementation, strengthening full-stack development capabilities

Projects

ML Network Threat Analyzer | Python | Machine Learning | Data Pipelines

- Designed and implemented a machine learning system to detect malicious network traffic across multiple datasets
- Built a unified data processing pipeline to clean, normalize, and merge heterogeneous network datasets into a consistent training format
- Developed and trained both binary and multiclass classification models for threat detection using structured network traffic data
- Structured the system to support continuous dataset expansion and iterative model improvement
- Focused on scalability and maintainability to enable future integration of additional data sources

Algorithm Visualizer Web App | React | TypeScript

- Built an interactive web application to visualize sorting, backtracking, graph traversal, and pathfinding algorithms in real time
- Designed a modular architecture supporting multiple algorithm categories without affecting existing implementations
- Implemented step-by-step state tracking and visualization logic to clearly represent algorithm behavior

AWS Data Pipeline for Tax Data | AWS | Python | Metabase

- Designed and deployed a serverless data pipeline using Lambda, Step Functions, S3, and Athena to process large-scale tax datasets
- Used Jupyter notebooks in AWS to clean, structure, and prepare raw data for analysis and querying
- Built analytical queries in Athena to enable efficient exploration of large datasets
- Developed dashboards and reports in Metabase to deliver actionable insights and support data-driven decision-making
- Structured the pipeline for scalability and efficient handling of growing data volumes

Education

Computer Science Engineer, Universidad de los Andes – 2026

Google Cybersecurity Certificate — Coursera (2024)