

Alfredo Leon Pumacallahui

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EDUCATION

Temple University, College of Science & Technology | GPA: 3.63

Philadelphia, PA

Bachelor of Science in Computer Science

Graduating: December 2028

Coursework: Data Structures, Algorithms, Databases, Mathematical Concepts in Computing

SKILLS

Programming Languages: Python, Java, JavaScript, C, C++, HTML, CSS, SQL, TypeScript

Frameworks/Libraries: Node.js, React, Next.js, Tailwind, Express.js

Data Analysis & Machine Learning: Pandas, Numpy, TensorFlow, PyTorch, scikit-learn, OpenCV

Developer Tools: Git, PostgreSQL, Prisma, Linux, Docker, Kubernetes, AWS (Lambda, RDS, EC2, S3)

EXPERIENCE

Human Computer Interaction Lab (HCI), Temple University

December 2025 – Present

Undergraduate Researcher

- Analyzed ChatGPT usage from 100+ participants, measuring collaboration changes and identifying a 25% drop in peer interaction
- Created 2 data-collection pipelines (surveys + interviews), standardizing qualitative/quantitative inputs, improving data reliability
- Contributed to a research paper analyzing AI tool usage and turning findings into design ideas developers could use

Center for Applied Research in Decision Making (CARD), Temple University

August 2025 – Present

Research Assistant

- Built Python and R programs to model customer decisions and automate data processing, improving performance by 40%
- Applied statistical analysis to large datasets to uncover patterns and predictive trends driving customer decision-making
- Collaborated with a 6-member team to optimize backend workflows, boost system efficiency, and support scalable data handling
- Built expertise in data pipeline development, Linux scripting, and database management to ensure reliable data delivery

Fresquito Market

May 2025 – July 2025

Customer Service Assistant

- Resolved 50+ daily customer inquiries by providing clear solutions, improving customer satisfaction and communication skills.
- Streamlined checkout process, reducing transaction time by 12% while maintaining 99.9% accuracy across 1,000+ transactions

PROJECTS

Health Risk Prediction App | [Github Code](#)

January 2026 - Present

- Built a health-risk application using the Delphi 2M model, analyzing user health data to estimate risk patterns with 90% accuracy
- Created a React and TypeScript frontend for visualizing tailored insights and tracking trends, increasing user engagement by 25%
- Implemented backend ML pipelines in Python including data processing, model integration and high accuracy predictive analysis

Campus Tutoring Platform | [Live Demo](#) | [Github Code](#)

November 2025 – Present

- Launched a peer-to-peer learning platform helping students tackle complex topics through peer teaching, used by 100+ students
- Designed UI/UX in React and TypeScript, using Node.js and Supabase for real-time updates, ensuring seamless user experience
- Implemented subject-based matching using student strengths, and course needs, improving tutoring match rate by 40%
- Built a scalable PostgreSQL database to manage profiles, requests, and feedback, ensuring reliable operations across the platform

Data Analytics App | [Github Code](#)

August 2025 – September 2025

- Built a full-stack data analytics app by integrating Google Sheets, Excel, and CSV, enabling smooth multi-source data processing
- Implemented interactive dashboards using Streamlit, delivering charts and AI-generated insights to enhance data visualization
- Integrated an AI chatbot to handle data queries and generate automated summaries, boosting user analysis speed by 25%

CERTIFICATIONS

AWS Certified Cloud Practitioner

January 2026

- Skills: AWS Cloud fundamentals, cloud architecture, security & compliance, pricing and billing

DeepLearning.AI – Generative AI with Large Language Models

January 2026

- Skills: Large language models (LLMs), transformers, prompt engineering, generative AI applications

Google Professional Data Analytics Certificate

November 2026

- Skills: SQL, spreadsheets, R, data cleaning, data visualization (Tableau), exploratory analysis, data storytelling