

# Alfredo Leon Pumacallahui

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## EDUCATION

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

Bachelor of Science in Computer Science

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

Philadelphia, PA

Graduating: December 2028

## 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