BLAS ARAMBURÚ

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EDUCATION

Purdue University, West Lafayette, IN   May 2026
Bachelor of Science in Computer Engineering | Minor: Mathematics | Concentrations: AI and ML, Software Engineering | GPA: 3.3
Relevant Coursework: Electrical Engineering, Python, C, Matlab, Breadboarding, Power Supplies, Verilog, Real Analysis, Mechanics, Data Structures, Algorithms, Systems, Logic.

Colegio Franklin D. Roosevelt, The American School of Lima, Lima, Perú   May 2022
Colegio Roosevelt Diploma, IB DP Diploma, Official Peruvian Certificate of Studies | GPA: 3.65 (41/45 IB Grade)
Relevant Coursework: Math AA HL, Physics HL, Spanish A HL, Business Management, Economics, English

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SKILLS:

• Languages: English and Spanish (Native), Croatian and Italian (Basic).
• Programming Languages: Python, C, SQL, HTML, SWIFT, MATLAB
• Tools: Autodesk Fusion, Adobe Photoshop, Adobe Premiere Pro, iMovie, Certified in Google Suite, Microsoft Office, 100 WPM

RELEVANT EXPERIENCE

JAI - AI & Automation Solutions, São Paulo, Brazil | Remote | *Artificial Intelligence Intern*   May 2024 / Jan 2025
• Gained expertise in LLMs, Retrieval-Augmented Generation, and cosine similarity through mentorship from the CEO.
• Developed Python-based assistants using the OpenAI API, enabling dynamic interaction and automated information retrieval from SQL databases.
• Engineered SQL-driven processes to generate summary reports and extract group-specific data, enhancing the efficiency of data management tasks.
• Conducted rigorous testing of Assistants integrated with WhatsApp, and designed prompts to address vulnerabilities, improving AI performance.
• Collaborated on projects that bridge AI and practical applications, contributing to the development of advanced solutions in a startup environment.

CAF - Development Bank for the Americas, Madrid, Spain | *Technology Innovation Intern*   July 2023
• Optimized a large-scale contact database, streamlining access to thousands of organizations, resulting in a 19% improvement in retrieval times.
• Led team to create innovative technological processes. Developed and tested optimization programs in Python.
• Conducted research on emerging technologies and proposed potential improvements to existing systems.

Numa - Asset Management, Lima, Perú | *Technology Intern*   June 2023
• Collaborated with team members to purchase and sell stocks, bonds, and options on the American and European stock exchanges.
• Engaged in high-level discussions with senior brokers on machine-learning strategies and market analysis, directly impacting trading decisions.
• Assisted in managing hundreds of millions of dollars and euros for high-net-worth customers and developed programs in Python to automate financial data and machine learning operations.

Freelance, Lima, Perú | *Math and Physics Tutoring*   Mar / Jun 2022
• Conducted individual tutoring sessions with students to help them improve their academic performance.
• Recruited and managed a network of tutors, expanding the service offering to include multiple subjects.
• Led a team of tutors, ensuring consistent delivery of high-quality educational support.

PROJECTS

Analog DJ Table *(Partnership)*   Aug / Dec 2023
• Collaborated on designing and developing an Analog DJ Table, integrating electrical and software components for enhanced user interaction.

Purdue EPICS: Tactile Board for Early Education *(Team) (Project Archivist)*   Jan / Apr 2024
• Documented project progress and coordinated tasks for a tactile board to assist early education, ensuring project milestones were met.

EXTRACURRICULARS

Fraternity, Sorority and Cooperative Life, Purdue University | *Student Worker*   August 2023 / Present
• Managed front desk operations, including handling phone calls, emails, and mail, to improve office communication flow and efficiency.
• Provided support to students, staff, and visitors, professionally addressing their inquiries and needs and enhancing overall customer service.
• Assisted in various administrative tasks, streamlining office workflows and supporting daily operations to ensure smooth and effective functioning.

Electric Vehicle Club - Autonomous Go Kart Project | Software Team   January 2025 / Present
• Collaborated with mechanical and electrical teams to develop an autonomous go-kart capable of driverless track navigation.
• Implemented computer vision algorithms using OpenCV to detect track limits via color mapping and ensure real-time localization.
• Assisted in laying groundwork for future enhancements, including optimal race line tracking and advanced sensor integration.

Organizations: ALDPES Honor Societies (2023), Sigma Alpha Epsilon (Spring 2023), SHPE (2023), ALPFA (2024), PLAB (2024), MEP (2024).