

Jonatan Enrique Badillo Tejeda

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Profile

Dedicated Computer Science student in my 8th semester at Benemérita Universidad Autónoma de Puebla, with a strong academic record (GPA 3.88) and a well-rounded skill set in programming, data analysis, and full-stack development. Motivated to apply my expertise in a data-driven or tech-focused internship, particularly in software engineering, data science, or machine learning.

Education

B.S. in Computer Science | Benemérita Universidad Autónoma de Puebla | 2020 - 2025 | GPA: 3.88

Relevant Courses: Database Management, Data Structures, Object-Oriented Programming, Web Development, Operating Systems.

Project Experience

- **Air Quality Analysis Intern** | BUAP | May 2024 – Present
Conducted city-wide air quality analysis for Puebla to support data-driven urban planning.
Technologies: R, ggplot2, Shiny. **Skills:** Time series analysis, ARIMA modeling, data visualization.
- **Inclusive Parking App** | BUAP Hackathon 2024
Created an accessible parking locator app with real-time reporting for unauthorized occupation.
Technologies: React JS, NextJS, AWS, Google APIs. **Skills:** Inclusive design, teamwork, UX optimization.
- **Web Application for Construction Company** | 2024 [Live Demo](#)
Developed a dynamic landing page with contact forms and galleries, enhancing digital presence.
Technologies: React, Vite, TypeScript, MUI. **Skills:** Front-end optimization, API integration, UI/UX design.
- **Datathon Puebla** | 2024
Analyzed air quality in Puebla's Historic Center and developed a chatbot with Llama model for user queries on air quality metrics.
Technologies: Python, R, Jupyter. **Skills:** Predictive modeling, natural language processing, chatbot development.

Technical Skills

- **Programming Languages:** JavaScript, TypeScript, Java, Python, C/C++, SQL, R
- **Frameworks and Libraries:** Node.js, React, Bootstrap, NextJS, Angular, MUI, Tailwind CSS
- **Data Science Tools:** Jupyter, Python (Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow), ggplot2, Shiny, machine learning (supervised/unsupervised algorithms, regression, clustering)
- **APIs and Integration:** EmailJS, Postman, RESTful services, Google APIs
- **Version Control:** Git, GitHub

Certifications

- Supervised Machine Learning: Regression and Classification – Stanford University (2024)
- Distributed Programming in Java – BUAP (2024)
- Data Analytics – IBM (2024)
- CS50's Introduction to Computer Science – Harvard University
- Introduction to Computer Programming – University of London (2020)

Core Competencies

- **Full-Stack Development:** Skilled in creating responsive, dynamic applications with modern frameworks like React, Next.js, and Node.js, incorporating RESTful APIs and secure data flows.
- **Data Analysis and Predictive Modeling:** Proficient in statistical analysis using R and Python, with experience in ARIMA modeling for time series forecasts.
- **Machine Learning & NLP:** Hands-on experience with regression, clustering, and developing NLP solutions using Llama and similar models for chatbot functionalities.
- **API Integration & Automation:** Expertise in API design and integration for seamless data management and automation.
- **Project-Based Problem Solving:** Proven success in solving real-world challenges, with notable achievements in hackathons and datathons.
- **Collaboration & Agile Development:** Proficient in Git and agile methodologies, enabling effective team collaboration and version control.

Languages

- Spanish (Native), English (Professional Proficiency)