

# Dennis Martin Vivas

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## Professional Summary

Dedicated Software Developer with extensive experience in database programming and focus on data science and analytics. Proficient in leveraging various programming languages and SQL to extract insights and drive decision-making. Skilled in leading analytical projects, data cleaning, data wrangling, and EDA using Python. Committed to continuous learning and eager to contribute expertise in data analytics to create innovative solutions and drive business success.

## Technical Skills

**Data Analytics:** Pandas, Numpy, Matplotlib, Data Wrangling, EDA, MS Excel, Spreadsheets.

**Machine Learning:** TensorFlow, Keras, OpenAI, Hugging Faces, Jupyter Notebooks.

**Database:** Oracle SQL, SQL Server, MySQL, ER models, SQL Optimization, ETL Process.

**Programming:** Python, R, Java, Eclipse, IntelliJ, NetBeans, JDeveloper, Django, FastAPI, GitHub.

**Cloud & Web Development:** HTML, JavaScript, CSS, React, Sass, Google Cloud Platform.

## Professional Experience

### **Data Analyst & Quality Assurance TAP** (Purdue University - Fort Wayne, IN) **2024 - 2024**

- Coordinated multiple projects with colleagues and professors, ensuring timely completion.
- Executed data cleaning, data wrangling, and EDA tasks leveraging Python focusing on identifying trends crucial for informed decision-making, utilizing **Pandas, NumPy, and Matplotlib**.
- Performed quality assurance, **identifying critical errors** and proposing enhancement solutions.
- Analyzed data and developed **visualizations** using Python to drive informed decision-making.

### **Senior Software Developer** (Cloud Information Solution - Lima, Perú) **2015 - 2022**

- Migrated key components of the **ERP software** from Oracle Forms to JDeveloper using **Java** and Groovy, improving UI while maintaining integration with the **Oracle Cloud SaaS** platform.
- Analyzed and enhanced database and front-end features using PL/SQL, improving the ERP system.
- Optimized critical features using **SQL**, achieving **over 100% improvement** in time efficiency.
- Managed client and internal requests via **Zoho Desk**, coordinating with the IT Manager.
- Guided Junior Developers by assigning tasks, providing **support**, and enhancing **productivity**.

### **Junior Software Developer** (Intratego - Lima, Perú) **2014 - 2015**

- Planned, analyzed, and developed new functionalities in ERP software using **PL/SQL**.
- Created and modified Oracle forms and reports in **ERP software** according to needs.
- Developed a **ticketing system** to track client requirements and employee activities.

### **Global Information System Intern** (Franklin Electric - Bluffton, IN) **2012 - 2013**

- Set up computers for employees using computer images, according to their needs.
- Troubleshooted computer-related problems and assisted employees.
- Managed employee computer lease swaps and returns effectively.

## Education

### **Master of Science in Computer Science**

Purdue University, Fort Wayne, IN. Graduated: 2024. Overall GPA: 3.8

### **Bachelor of Science in Computer Science with a minor in Accounting**

Huntington University, Huntington, IN. Computer Science GPA: 3.2

## Projects

### **Patience's Experience for Public Health: Data Analysis on the Public Health System**

- Examined eight customer satisfaction features using **Python, Pandas, NumPy, and Matplotlib**.
- Generated **visualizations** illustrating patient satisfaction levels across states using Python and **Geopandas map** visualization library, based on customer survey data.
- Identified key findings show overall consistent public healthcare experience nationwide with a slightly superior patient experience in the Midwest region.

### **Learning Assistant: Enhancing Classroom Accessibility for diverse learning needs**

- Built a web application using **FastAPI with JavaScript**, enabling live voice recording and transcription via the MDN Web Speech API.
- Implemented real-time summarization, translation, and text correction by integrating **OpenAI** models, and **Google API** with the application backend.
- Deployed the solution on **Google Cloud using Docker**, ensuring scalability and performance.
- Collaborated closely with the sponsor to gather requirements and iteratively refine features, delivering a tool that exceeded expectations.

### **Bowling Scoring System: API team providing back-end solution**

- Guided the **back-end** side of the project, liaising with Front-End team members to eliminate blockers and ensure seamless developer progress using Jira and Slack.
- Designed the database schema and engineered the back end utilizing PostgreSQL and **Java** within IntelliJ, showcasing SQL and **data modeling** proficiency.
- Empowered frontend teams to manipulate team, league, score, and user data through vital **API endpoints** for enhanced user interaction.
- Tested the endpoints necessary for the Bowling scoring system using **Postman**, leading to enhanced system reliability and identifying critical bugs.

### **Bakery Management System**

- Developed a web application using **Django** for the backend and **React** for the frontend.
- Implemented authentication, **API endpoints**, and **database models** for managing orders.
- Designed user-friendly interfaces using **JavaScript**, **HTML**, **CSS**, and Sass for placing orders, viewing profiles, and managing bakery items.
- Utilized **GitHub** for version control and collaboration throughout the project.

### **Topos: Room Draw process for Huntington University**

- Enhanced room selection time efficiency by over 80% by developing a web portal incorporating automated email notifications and a room availability checker using VB.NET and SQL Server.
- Empowered students to select roommates and reserve rooms efficiently through the student portal, with an average completion time of less than 30 minutes.
- Enabled oversight and room selection adjustments through the utilization of an admin portal.

### **Extracurricular activities**

- Member, Hispanos Unidos at Purdue University
- Member, InterVarsity Christian Fellowship at Purdue University
- Volunteer and Co-Leader of Hispanic ministry 'A lo Nuestro', at Huntington.
- Leader and co-founder of the Spanish Club at Huntington University
- Member, Huntington University Tennis Team
  - Two-time Doubles Champion, Crossroad League Conference
  - Team Champion, Crossroad League, with the opportunity to play Nationals
  - Team co-captain in the last two years
- Spanish Tutor, the Learning Center at Huntington University
- Member, Technology Services Team at Huntington University