

# DASHEL RUIZ PEREZ

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## PROFESSIONAL SUMMARY

**Data Analyst, ML Engineer & AI Solutions Architect** with 6+ years of experience transforming data into business value across semiconductor manufacturing and AI-driven platforms. Led end-to-end development of production ML systems, delivered \$100K+ cost savings through predictive analytics, and currently architecting full-stack AI recruitment solutions. Expertise in Python, cloud deployment (GCP), and cross-functional leadership in fast-paced environments.

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## CORE COMPETENCIES

### Programming & Development

Python, SQL (PostgreSQL, Oracle), JavaScript, HTML/CSS, Git

### Machine Learning & AI

Scikit-learn, TensorFlow, Predictive Analytics, RAG Systems, Statistical Process Control, Time Series Analysis

### Data Engineering & Cloud

ETL Pipelines, Google Cloud Platform (GCP), Docker, REST APIs, Database Design

### Data Analysis & Visualization

Pandas, NumPy, Matplotlib, Seaborn, Tableau, Statistical Analysis

### Leadership & Collaboration

Cross-functional Team Leadership, Technical Instruction, Project Management, Client Training

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## PROFESSIONAL EXPERIENCE

## **Talenti.ai (Startup) | ML Engineer & Full-Stack AI Solutions Architect**

*May 2024 – Present*

- **Architected and deployed** AI-driven recruitment platform from proof-of-concept to production, managing full development lifecycle on GCP using Docker and Google Run
- **Built and integrated** machine learning models for PDF data extraction, integrated third-party APIs for data capture, and designed database structures for efficient storage and retrieval.
- **Designed RAG (Retrieval-Augmented Generation) framework** for intelligent content creation, enabling dynamic data storage and retrieval capabilities
- **Established enterprise-grade security protocols** and automated workflows using Zapier integrations and GCP VMs
- **Collaborated with C-level stakeholders** to define product roadmap and new features, aligning development efforts with the company's strategic vision

## **ThriveDX | Lead Software Developer Instructor**

*May 2022 – January 2025*

- **Lead comprehensive curriculum delivery** for full-stack development and cybersecurity programs across 4 major university partnerships (SDSU, NC State, NYU, CSU Long Beach)
- **Delivered** Python, SQL, JavaScript, and cybersecurity instruction to 200+ students annually with diverse technical backgrounds
- **Mentored students through 1-on-1 coaching sessions** for positive learning outcomes
- **Utilized advanced LMS platforms** to deliver engaging content in synchronous and asynchronous formats across multiple time zones

## **Microchip Inc. | Software Engineer**

*October 2021 – January 2023*

- **Developed predictive analytics applications** for real-time tool monitoring, improving manufacturing efficiency by 25% across 200+ production tools
- **Implemented ML-based risk detection algorithms** that identified process anomalies, preventing \$100K+ in potential losses and reducing defect rates by 30%
- **Built comprehensive Oracle database system** processing 200M+ lines of unstructured manufacturing data, enabling real-time insights for CMP operations
- **Collaborated with cross-functional engineers** to gather requirements and deploy integrated solutions, reducing data retrieval time from hours to minutes

- **Created data visualization dashboards** using Python and statistical analysis, supporting decision-making.
- **Enhanced tool-tracking solutions** with ML-based summary statistics, providing actionable insights across multiple manufacturing areas

## **Microchip Inc. | Intern, Yield Enhancement Software Engineer**

*February 2021 – September 2021*

- **Built ETL applications** that streamlined data workflows for engineering teams, increasing productivity by 40% and enabling faster decision-making
- **Applied state-of-the-art ML algorithms** to analyze wafer process data, identifying risk patterns that contributed to a 15% yield improvement
- **Developed parsing algorithms** for unstructured data sources, ensuring 99%+ data integrity across production systems
- **Supported critical production data systems** while collaborating with cross-functional teams to drive continuous process improvements.

## **Microchip Inc. | Process Engineer Technician I (TF/CMP)**

*October 2019 – January 2021*

- **Conducted thorough root cause investigations** for non-conformances, implementing solutions that reduced process variation by 20%
- **Utilized advanced SPC monitoring tools** to analyze trends and facilitate timely process adjustments, maintaining optimal production parameters
- **Coordinated new tool qualifications** with equipment and production teams, ensuring seamless integration of \$2M+ manufacturing equipment
- **Applied data collection and analysis methodologies** to support process optimization across multiple production lines

## **Previous Microchip Roles**

*December 2013 – October 2019*

### **Process Enhancement Specialist | June 2017 – October 2019 • Standardized tool qualification processes**

- **Collaborated with Process and Equipment Engineering** to resolve repetitive defects, saving \$50K+ annually in rework costs
- **Trained and mentored technicians** on qualification procedures, improving team efficiency and knowledge transfer

**Production Specialist (Back-up Lead) | December 2013 – April 2016**

- **Led production operations** in the Diffusion area as backup supervisor, managing daily workflow and team coordination
  - **Promoted from Expeditor to Production Specialist** within 8 months, demonstrating rapid skill development and leadership potential.
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## EDUCATION

**Master of Data Analytics** | Western Governors University | *May 2023*

**Bachelor of Science, Computer Science** | Western Governors University | *August 2021*

**Associate of Science (Transfer)** | Portland Community College, OR

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## PROFESSIONAL CERTIFICATIONS

- **Google Advanced Data Analytics** | Coursera | *2025*
- **Machine Learning Professional Certificate** | Universidad Autonoma de Yucatan | *2024*
- **Data Engineering Zoomcamp** | DataTalksClub
- **Data Engineer in Python** | DataCamp
- **Data Analyst in Tableau** | DataCamp
- **CompTIA Project+**