

Bianca Melendez

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SUMMARY

Current Electrical Engineering student with practical experience in AI-driven automation and programming, especially in Python. Recently engaged in projects to improve semiconductor testing processes using AI technologies. Designed workflows that enhanced efficiency through automation. Valuable contributor in academic and hackathon settings, collaborating with peers and presenting innovative solutions to complex problems. Eager to apply technical skills at Innovative Tech Solutions while gaining insight into semiconductor engineering dynamics. Committed to building robust technology for AI environments and advancing machine learning applications.

EDUCATION

B.S. in Electrical Engineering
University of California, San Jose GPA: 3.8
Coursework: Circuit Design, Digital Systems, AI Applications, Test Methodologies

2026
San Jose, CA

TECHNICAL SKILLS

- **Programming Languages:** Python
- **Data Manipulation Tools:** Pandas, NumPy
- **AI Tools:** GPT-3, TensorFlow, Copilot
- **APIs:** REST, GraphQL
- **Automation Platforms:** Jenkins, GitHub Actions, Azure DevOps
- **Presentation Tools:** PowerPoint, Google Slides, Canva
- **Collaboration Software:** Slack, Microsoft Teams, Zoom
- **Testing Frameworks:** JUnit, pytest, Selenium
- **Version Control Systems:** Git, SVN, Mercurial
- **Database Management:** MySQL, SQLite, MongoDB

SKILLS

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|---------------|------------------------|--------------------|----------------------|
| • Python | • data analysis | • scripting | • report generation |
| • Pandas | • automation workflows | • APIs | • testing procedures |
| • NumPy | • teamwork | • machine learning | • validation methods |
| • AI/ML tools | • communication | • data pipelines | |

EXPERIENCE

AI Automation Developer
University Project

January 2026 – May 2026
San Jose, CA

Collaborated on an intern project focused on developing AI-powered automation workflows for semiconductor testing. Raised project visibility through innovative use of automation techniques, addressing key manual processes within the team.

- Designed and developed an AI-powered workflow for data extraction, improving efficiency significantly.
- Utilized Python and Pandas for swift script development, facilitating agile testing protocols.
- Collaborated with colleagues to eliminate bottlenecks by implementing intelligent automation tools.
- Created interactive dashboards, giving teams real-time insights into test performance metrics.
- Thoroughly documented automated processes, aiding understanding and adoption across the team.
- Presented results at formal meetings, elevating team engagement and excitement around innovation.

Machine Learning Engineer
Hackathon Project

March 2026
San Jose, CA

Participated in a regional hackathon where hands-on implementation of machine learning models addressed common industry issues. Collaborative environment fostered teamwork and communication skills while tackling real-world challenges.

- Developed a TensorFlow model predicting yield rates, achieving an accuracy base rate of 85%.
- Engaged in teamwork to create a prototype application, enhancing our project's appeal.
- Streamlined data pipelines by integrating APIs, resulting in smoother workflow transitions.

- Conducted comprehensive validations of model outputs, optimizing algorithmic approaches based on findings.
- Showcased project solutions at the hackathon, gaining recognition for innovation.
- Interacted with mentors, expanding knowledge of machine learning applications in engineering contexts.

Research Assistant

September 2025 – December 2025

Academic Research

San Jose, CA

Supported faculty-led research focusing on utilizing artificial intelligence in silicon validation. Contributed to testing methodologies and was involved in analyzing large datasets crucial for advancing the project's output.

- Contributed to cross-sectional analysis of emerging AI techniques to enhance silicon processing.
- Drafted detailed records of research findings for potential publication in professional journals.
- Assisted in project discussions, providing input into AI advancements through collaboration.
- Facilitated preparation of presentations, promoting innovative outcomes within academic circles.
- Conducted repetitive tasks efficiently using NumPy, boosting processing speeds and comprehension.
- Explored diverse AI tools, growing practical understanding useful for ongoing course work.

LEADERSHIP & AWARDS

- Dean's List, University of California, San Jose (2025)
- First Place, Regional Hackathon (2026)

CERTIFICATIONS

- Python for Data Science 📅 2026
- AI Foundations 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, AI Club, University of California, San Jose (2025 - Present)
- Volunteer, Engineering Outreach Program (2024 - Present)

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST