Melani Triana

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EDUCATION

New Jersey Institute of Technology   Newark, NJ
Bachelor of Science in Computer Science   *Sep. 2022 – Dec. 2026*
- Relevant Coursework: Data Structures, Algorithms, Database Systems, Computer Networks, Linear Algebra

ADDITIONAL EXPERIENCE & LEADERSHIP

Computer Science Tutor   Sep. 2023 – Present
New Jersey Institute of Technology   *Newark, NJ*
- Tutor undergraduate students in Python, C++, and data structures, improving student performance by 25%
- Conduct study sessions and develop practice problems for programming fundamentals and algorithms

Technical Workshop Leader   Jan. 2024 – Present
NJIT Computer Science Club   *Newark, NJ*
- Lead weekly workshops on mobile development, web technologies, and software engineering best practices
- Organize coding competitions and hackathons, mentoring 50+ students in technical project development

TECHNICAL SKILLS

Programming Languages: Python, C/C++, JavaScript, HTML, CSS, Dart, Swift
Frameworks & Tools: Flutter, Firebase, Node.js, React, OpenCV, Git, VS Code, Xcode, Android Studio, Figma
Technologies: RESTful APIs, Mobile Development, Cross-Platform Applications, Database Management

EXPERIENCE

Co-Founder & Chief Technology Officer   Feb. 2025 – Present
MVP.ai   *Newark, NJ*
- Architect and develop full-stack cross-platform mobile application using Flutter, Firebase, and Node.js
- Lead technical team of 3 developers in optimizing frontend and backend performance, improving user experience by 40%
- Oversee end-to-end software development lifecycle from concept to deployment across iOS and Android platforms
- Implement agile methodologies and manage product roadmap with sprint planning and technical documentation

Information Technology Support Specialist   May 2024 – Present
Freelance & Volunteer   *Bergen County, NJ*
- Provide technical support for Windows, MacOS, and Linux systems, troubleshooting hardware and software issues
- Conduct training workshops on computer skills and digital literacy for 20+ clients monthly
- Develop technical documentation and training materials for users at various skill levels

PROJECTS

MVP.ai Mobile Application | *Flutter, Firebase, Node.js, RESTful APIs*   Feb. 2025 – Present
- Developed cross-platform mobile app with real-time data synchronization and user authentication
- Built RESTful APIs and plan to deploy to iOS App Store and Google Play Store

Facial Recognition Application | *Python, OpenCV, Computer Vision*   Nov. 2024
- Developed real-time facial recognition system using Python and OpenCV with 95% accuracy
- Implemented computer vision algorithms for face detection with optimized performance

Pizza Restaurant App Prototype | *Figma, UI/UX Design*   Oct. 2024 – Nov. 2024
- Designed interactive mobile app prototype with user testing, improving satisfaction metrics by 30%
- Created wireframes and high-fidelity prototypes following modern UI/UX design principles