MARC CARLO DY

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PROFESSIONAL SUMMARY

Computer Science student leveraging 4+ years of hands-on hardware diagnostics and embedded systems experience to build robust, full-stack software. My unique background provides a deep, systems-level understanding that enhances software design and troubleshooting. Proven ability to deliver production applications, eager to contribute to a challenging software engineering role.

EDUCATION

University of Nevada, Las Vegas | Las Vegas, NV | Expected Dec 2025
Bachelor of Arts in Computer Science
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Cloud Computing, Database Management System, Computer Networks

Grossmont College | El Cajon, CA | Dec 2022
Associate of Science in Computer Science and Information Systems

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, C/C++, SQL, HTML/CSS
- **Frontend:** React, TailwindCSS, Bootstrap, shadcn/ui
- **Backend:** NestJS, FastAPI, Django, REST APIs
- **Cloud/Database:** AWS (Lambda, EC2, RDS, SageMaker), PostgreSQL, DynamoDB, SQLite
- **Tools:** Git, GitHub, Docker, VS Code, Jira, Confluence, Linux, Arduino, Raspberry Pi

PROFESSIONAL EXPERIENCE

Software Engineering Intern | Haig's Quality Printing | Las Vegas, NV | Sep 2024 – Present

- Developed full-stack features using React, TailwindCSS, and NestJS for automated quoting systems, enhancing efficiency and user experience
- Integrated Google OAuth and Microsoft Outlook API to streamline customer workflows, improving accessibility and user satisfaction
- Supported AWS infrastructure deployment and contributed to AI-powered estimation tools using Lambda and SageMaker, optimizing processing speed and accuracy
- Utilized Docker to containerize applications, standardizing development and deployment environments for improved portability and consistency

Product Support Specialist | INEX USA | Las Vegas, NV | Aug 2023 – May 2024

- Executed comprehensive testing on casino gaming equipment, **ensuring 99%+** reliability standards
- Provided Linux technical support and troubleshot embedded systems (Arduino, Raspberry Pi, Odroid)

Electronics Technician | Aruze Gaming America, Inc | Las Vegas, NV | Apr 2023 – Aug 2023

- Performed component-level diagnostics and repair on Electronic Gaming Machines, enhancing machine reliability and reducing downtime
- Maintained and calibrated Bill Validators (BVs) and TITO thermal printers, achieving zero-defect performance
- Ensured compliance with Nevada Gaming Control Board (NGCB) standards through rigorous testing procedures.

Test Technician | Vadatech | Las Vegas, NV | Jul 2022 – Mar 2023

- Conducted functional and safety testing using oscilloscopes, multimeters, and signal generators, ensuring product reliability and compliance with industry standards
- Performed Environmental Stress Screening including thermal cycling and vibration testing, enhancing product durability and performance under extreme conditions

Manufacturing Technician | Tek84 | Poway, CA | Oct 2020 – Jun 2022

- Assembled electronic/mechanical components for robotic X-ray systems per engineering specifications
- Executed QA testing and implemented process improvements to reduce assembly errors

FEATURED PROJECTS

TCG Price Finder Web Application | tcgnode.com | Apr 2025 - Present

- Built full-stack price comparison platform using React, FastAPI, serving **20-50 active users**
- Integrated eBay API for historical sales data and utilized Docker for containerized deployment on DigitalOcean and Vercel

IoT Scalp Massager System | GitHub Project Link | Jun 2024

- Developed Django web app controlling Arduino-based linear actuator system.
- Designed 3D-printed chassis using Fusion 360

Industrial Data Analytics Platform | [Live Demo](#) | Jan 2022

- Built Django application for real-time assembly line error collection and analysis.
- *Technologies Used: Django, SQLite, HTML/CSS, Bootstrap*

ADDITIONAL EXPERIENCE

Nursing Facility Asst. Administrator | Las Vegas Post Acute and Rehab | Las Vegas, NV | May 2024 – Present