Programming Languages:

- Python (AI, automation, image processing, electronics)
- JavaScript (frontend & backend integration, UI/UX improvements)
- PHP (backend logic, full-stack development with Symfony)
- VHDL (digital design, 8-bit ALU implementation)

Frameworks & Libraries:

- Symfony (PHP framework)
- Machine Learning (SVC, KNN, Decision Trees, Clustering)

Databases:

- Experience in modifying and testing databases under Linux environments
- Automated material tracking systems ensuring accurate database updates and integrity

Language:

- Language:

Tools & Platforms:

- Git (Bitbucket), Jira (project/task tracking), Confluence (documentation)
- Linux (server testing, pre-deployment database testing)
- Shopify (product migration, App development, front-end customization)

Development Methodologies:

- Agile collaboration: Worked in a 5-person development team for thermal paste tracking app
- Feedback-driven iteration for user-centric solutions (e.g., PCB material request app)

Design Approaches:

- Backend automation and UI/UX improvements
- Full-stack application structure with attention to logic flow, data validation, and responsive design

Best Practices:

- Test and deployment under Linux servers before production
- Hands-on use of Bitbucket for version control, PR management, and collaborative workflows
- Code and process documentation through Confluence

Real-World Problem Solving:

- Automated material tracking for shipment and production efficiency
- Reduced delays and human error across multiple factory workflows
- Saved 3 months of manual work and improved accuracy in Shopify migration

Collaboration:

- Worked cross-functionally between engineering, warehouse, and product teams
- Managed and contributed to codebases using version control and PRs

Full-Stack Development & Integration:

- Designed end-to-end systems for database automation and material tracking
- Customized front-end Shopify layout for enhanced customer experience

Driving large-scale data migration and front-end website enhancements, utilizing advanced Excel techniques, Shopify import methods, and UI customization to boost operational efficiency and customer experience. Streamline inventory products and redesign websites seasonally for improved usability and aesthetics.

Migrated 10,000+ products to Shopify with automated Excel scripts.
Redesigned website seasonally, enhancing user interface and navigation.
Developed application improving store efficiency.

Spearheaded development of innovative applications to enhance material tracking and automate workflows, utilizing PHP with Symfony for backend and JavaScript with CSS for frontend, achieving a 30% increase in efficiency and a 25% reduction in manual errors

Developed multiple applications to optimize production logistics.
Improved warehouse tracking, reduced serial number mismatches and material errors.

Universidad Autónoma de Querétaro

GED at Santa Barbara City College