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# Professional Summary

Multidisciplinary developer with a strong background in Android development, web systems, and embedded devices. Skilled in delivering end-to-end solutions integrating IoT, machine learning, and real-time systems. Passionate about building practical, impactful technology—from mobile apps to smart hardware systems. Known for adaptability, hands-on problem-solving, and rapid prototyping.

# Technical Skills

## Programming Languages & Frameworks

Python, PHP (Laravel & Native), Java, C++, C#, JavaScript  
Frameworks: Laravel, Node.js (Express), .NET, Flask, REST API, Scikit-learn, TensorFlow, PyTorch

## Mobile & Web Development

Android (Java) – Android Studio  
PHP/Laravel – Web systems and APIs  
Node.js / Express – Backend APIs  
Flask & .NET – Web and desktop applications  
React – Frontend UI and SPA development  
RESTful API development & integration

## Embedded Systems & Microcontrollers

Arduino, ESP8266, ESP32, Raspberry Pi  
Arduino IDE, PlatformIO, EEZ Studio, Nextion Editor  
Circuit design: Fritzing, PCB design

## Machine Learning & Computer Vision

Object Detection, Image Segmentation, Face Recognition, OCR, Random Forest, Regression, Deep Learning, CNN, RNN, Label Studio, LabelImg

## Software / Tools

Android Studio, Visual Studio, VS Code, PyCharm, Thonny, NetBeans  
Fusion 360 – 3D modeling and printing  
RealVNC – Remote desktop access  
Git – Version control  
WebSocket, SSH – Communication & control protocols

## Databases

MySQL, SQLite, Firebase (Realtime DB, Firestore), MongoDB

# Work Experience

## Full Stack Developer

Key Solutions Inc. – Pasig City (Onsite)  
2015 – 2016  
- Developed Android apps for real-time GPS tracking and vehicle behavior monitoring  
- Configured and tested AVL GPS tracking devices for various fleet types  
- Managed Ubuntu-based GPS tracking servers for uptime and accuracy  
- Contributed to client-facing web application development  
- Presented new features and system updates to supervisors and executives

## Android Development Trainer

Infinitech Training Center – Lucena City (Onsite)  
2017 - 2018  
- Trained students in Android fundamentals and 2D game development using Android Studio  
- Provided mentorship, debugging support, and project completion guidance  
- Helped students earn certificates through hands-on app development

## Freelance Developer

QPPD – Quezon Province Programmers/Developers – Remote / Project-based  
2019 – Present  
- Developed full-stack systems using modern frontend, backend, and databases.  
- Built real-time web and mobile apps with AI and ML.  
- Created embedded systems using microcontrollers and Raspberry Pi.  
- Installed and maintained solar panel systems and battery storage solutions.  
- Assembled and tested wind turbine generators for alternative setups.  
- Fabricated custom frames and enclosures via MIG and arc welding.