

# Adrian Harminto

SOFTWARE APPLICATION ENGINEER • WIRELESS TEST ENGINEER

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## Profile

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- Senior Wireless Engineer with 6+ years solving wireless network validation challenges through test automation and infrastructure design.
- Expert in developing scalable Python/Shell automation frameworks for high-density network regression testing (100+ clients)
- Proven ability to identify automation gaps and build custom tooling solutions that enable complex testing scenarios beyond standard frameworks.
- Early adopter of enterprise AI tooling for testing workflows, utilizing company internal LLM platforms to optimize log analysis and technical documentation.

## Skills

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**Languages** Python, Bash/Shell, C/C++, Java

**Automation & Tools** Jenkins, Meraki Dashboard API, Cisco WLC, Linux, SSH, Git, Wireshark, Ixia IxChariot, iPerf

**Network Protocols** 802.11be/Wi-Fi 7, OFDMA, MLO, TCP/UDP, IPv4/IPv6, VLAN, DHCP, DNS

**AI/Productivity** Copilot, QGenie, AI Office Suite

## Work Experience

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### Qualcomm

SENIOR SOFTWARE APPLICATION ENGINEER

San Jose

2024-Present

- Managed end-to-end wireless validation for Cisco/Meraki accounts, driving sanity and regression strategies for high-priority SBA (patch releases) drops.
- Engineered a custom Python/Shell automation framework to orchestrate multi-client connectivity (50+ mixed-OS devices), solving a critical manual testing bottleneck and enabling previously impossible test scenarios such as simultaneous roaming validation.
- Orchestrated automated regression cycles using Meraki's Jenkins/YAML framework, while developing a supplementary Python/Shell toolkit to handle complex client connectivity states (roaming, re-authentication, driver recovery) for manual debugging purposes that the standard automation could not support.

SOFTWARE APPLICATION ENGINEER

September 2019-2024

- Executed rigorous stability validation (Longevity) across Wi-Fi 5, 6, and 7 platforms, conducting 72+ hour endurance runs and performing root-cause analysis on system crashes (core dumps/console logs).
- Designed and deployed the physical lab topology for Cisco/Meraki testbeds, implementing strict VLAN isolation (Management vs. Traffic) and IP disciplining to optimize debug efficiency in high-interference environments.
- Managed selected high-priority Salesforce support cases, reproducing customer-reported Wi-Fi defects in internal labs and co-ordinating fixes with cross-functional development teams.

### Dot11labs (WiFi performance testing labs)

Riverside

WIRELESS TEST ENGINEER

June 2018-August 2019

- Programmed Python-based automation to test router performance and control turntables for wireless signal analysis.
- Managed network performance testing using IxChariot, octoScope's stardust-UI (iPerf3), and custom CLI tools.
- Developed a DIY turntable using Raspberry Pi 3B+ with stepper motor control, reducing manual test execution time from 4 hours to fully automated runs

## Education

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### University of California, Riverside

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

2019

- Relevant Course: Data Structures & Algorithms, OS, Computer Networks, Embedded Systems, Software Engineering.