

Andrew Walwema

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WORK EXPERIENCE

Founder & Lead Engineer — Moonrise Bay Technologies LLC

August 2023 - Present

- Built and shipped 4+ products across iOS, web, and AI — from architecture through App Store/production deployment
- HearLabs — Developed iOS app for CES-featured audio startup; Bluetooth device pairing, Firebase auth, TestFlight distribution
- FaithFilter — Built AI-powered content platform with LLM vector search (OpenAI + Pinecone), automated podcast ingestion pipeline, and React admin dashboard; deployed to DigitalOcean
- Sip & Scroll (founder-built) — iOS app using Google Gemini vision API to verify user behavior before unlocking apps; habit tracking with CoreML
- TattooMe (founder-built) — AI tattoo visualization app using Gemini multi-image prompting, gesture-based positioning, StoreKit 2 monetization; live on the App Store
- Available for Corp-to-Corp (C2C) contracts through registered LLC with EIN on file

June 2020 - August 2023

OCI Software Engineer

Oracle (Cloud Infrastructure), San Francisco, CA

- Data Management Service – implemented API features using Java and React JS to support early features for both OpenSearch and Redis which helped ramp up the initial start of both managed cloud services.
- Redis - Implemented a Guice framework test harness which improved code quality and mimicked production code. Implemented failover functionality which automatically replaces faulty cluster nodes to ensure uptime and better customer experience.
- AI and Healthcare – building the Fast Healthcare Interoperability Resources service (FHIR) by implementing infrastructure and backend components. Implemented IAM policies, groups, and network infrastructure using terraform which helped quickly build the core structure of the FHIR service in time for an audit deadline.

May 2018 - August 2018

Advanced Driver Assistance Systems (ADAS) Algorithm Intern

Continental AG, Auburn Hills, MI

- Built tools to visualize and analyze data generated by ADAS systems using Python and Bokeh library. Tool helped compare algorithms more quickly.
- Contributed to a proposal for automating an adaptive cruise control (ACC) parameter tuning system by researching on applying reinforcement learning. Research was used as input for a proposal to the head of ADAS R&D.

Graduate Research Assistant & Graduate Teaching Assistant for CSE Department

September 2017 –
December 2019

Oakland University, Rochester, MI

- Researched on implementing smarter programming languages by applying Programming synthesis and other techniques. Assisted professors by grading assignments and assisting students by clarifying concepts.

Mobile Security Summer Research Assistant

June 2016 - August 2016

University of Nebraska-Lincoln, Lincoln, NE

- Researched tools for dissecting network traffic to detect potential data leaks caused by apps. Wrote BASH and Python scripts to install and test apps on Android devices and emulators via an Ubuntu virtual machine.

EDUCATION

Computer Science, M.S. – Graduate Assistantship Grant, Thesis
Oakland University, Rochester, MI

December 2019

Computer Science, B.S. – Dean's List & Departmental Honors
Oakland University, Rochester, MI

May 2017

TECHNICAL SKILLS

Programming/Scripting Languages: Java, Python, C#, Terraform, HTML/CSS, php, Django, SQL, bash, Scheme, Kotlin, Flutter

Operating Systems: Windows, MAC, Linux (Ubuntu, CentOS)

Software: Docker, Kubernetes, Visual Studio, Android Studio, IntelliJ IDEA, GitHub, Oracle VirtualBox