Mira Okafor

Systems researcher and engineer

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PROFILE

I study how small systems fail and build tools that fail more gently. Eight years across research labs and community projects, with work published on sensors, databases and accessibility.

EXPERIENCE

Research engineer, Sample Institute for Applied Systems — 2022 to now

- Lead a team of four building low-cost sensing networks for local councils.
- Cut the slowest one percent of reads in a small replicated store by a third.
- Run the lab's open data policy and review every release.

Software engineer, Fieldwork Tools Ltd (sample) — 2018 to 2022

- Built an offline-first notebook now used by survey teams in six countries.
- Wrote the sync layer and the test plan for it.

SELECTED PUBLICATIONS

Mira Okafor, Jonas Lindqvist, Priya Raman (2026). Cheap Sensors, Honest Error Bars: Calibrating Low-Cost Air Monitors in the Field. *Journal of Environmental Sensing*. doi:10.0000/jes.2026.0142

Mira Okafor, Tomas Reyes (2025). Fewer Round Trips: Tail Latency in Small Replicated Stores. *Proceedings of the Sample Systems Workshop*. doi:10.0000/ssw.2025.0031

Priya Raman, Mira Okafor, Ayo Bello (2024). Reading Order Matters: How Screen Reader Users Navigate Long Documents. *Posted to a preprint server*.

PROJECTS

Tidemark, Lead engineer — 2026

A small dashboard that shows river levels and flood risk from cheap sensors, and says how sure it is.

Fieldnote, Designer and developer — 2025

An offline-first notebook for people who work where there is no signal. Notes sync when a connection returns.

Quill, Author — 2024

Comments for static sites, stored as plain files in your own repository. No third-party scripts.

EDUCATION

PhD, Computer Science, University of Sampleton — 2014 to 2018

BSc, Mathematics, Example College — 2010 to 2014

SKILLS

Languages	Go, Rust, TypeScript, Python, SQL
Data	SQLite, time series, sensor calibration, study design
Web	Hugo, static sites, accessibility, service workers

AWARDS

- Community Data Award, 2025 (sample)
- Best short paper, Sample Accessibility Conference, 2024