MD INTISAR HOSSAIN

SOFTWARE & PRODUCT ENGINEER

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SUMMARY

Software and product engineer with M.S. and B.S. degrees in Computer Science. Builds mobile applications, native macOS tools, and source-linked data products through Lake Effect Logic. Hands-on experience with requirements, application development, troubleshooting, validation, documentation, and release readiness. Focuses on clear workflows, explicit permissions, local records, and inspectable failure states.

EXPERIENCE

Lake Effect Logic | Independent Product Engineer | Buffalo, NY
2024-Present

- Built mobile, web, desktop, and civic-data products, translating real-world problems into requirements, application behavior, validation rules, and working software.
- Developed **WheelWage** with Kotlin Multiplatform and Swift: offer analysis, local work records, mileage tracking, expense context, and user-initiated exports. Publicly described release: Android early access.
- Built **Buffalo Property Lens**, a public web application combining municipal records into one property research workflow with exact parcel matching, source links, freshness indicators, and ambiguous-data safeguards.
- Built **Brightside** in Swift/macOS with native and DDC/CI display-control paths, multi-display configuration, offline operation, and reset and recovery controls.
- Designed and developed **PatchPilot**, a Next.js and TypeScript release-workflow project organizing crash signals, reviews, policy checks, test evidence, and release packets.
- Created **Python, AWS, Pandas, and ETL** workflows for ownership-record normalization and analysis of **340,000 Buffalo 311 records**.

TECHNICAL SKILLS

Applications: Kotlin, Jetpack Compose, Swift, SwiftUI, Core Data, Next.js, TypeScript, macOS

Data & systems: Python, Pandas, ETL, data integration, exact-match joins, AWS, Linux, Git

Engineering: Requirements analysis, debugging, testing and validation, technical documentation, release readiness, permissions, recovery paths, data provenance

EDUCATION & CREDENTIALS

M.S. Computer Science, AI/ML - Western Governors University, May 2026
B.S. Computer Science - Western Governors University, August 2025

AWS Certified Machine Learning Engineer - Associate (May 2026)
ITIL 4 Foundation (March 2025) | **LPI Linux Essentials** (June 2024)

University at Buffalo, SUNY: Mathematics coursework in calculus, linear algebra, probability, statistics, and discrete mathematics.