Waseem Sabir

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EXPERIENCE

Senior Software Engineer   June 2022 – Present
Tajir (YC W20) | B2B distribution platform serving 100k+ stores   *Lahore, PK*
- Architected and led a team of engineers building a full-stack platform using Python, Kotlin (Android/MVVM), and TypeScript (React) with Domain-Driven Design, serving 30K+ DAU and processing 10K+ orders daily
- Drove 42% net revenue growth by designing and implementing seven-day delivery and automated order carryover
- Reduced operational costs by 31% (4.5% → 3.1%) by architecting delivery optimizations, including zone-based routing, parking spot allocation, and in-sequence delivery
- Engineered GPS tracking and route optimization, achieving 23% fuel savings and 8% higher delivery acceptance

Software Engineer   Sept 2021 – May 2022
Elevate Security (acquired by Mimecast)   *Remote (US)*
- Enhanced Reflex, a Django-based human risk management platform serving enterprise clients
- Reduced API response times by 30% by designing caching layers and optimizing data pipelines

EDUCATION

Lahore University of Management Sciences (LUMS)   Lahore, PK
BS Computer Science   *Aug. 2018 – May 2022*
- Dean's Honor List | Teaching Assistant: Advanced Programming, Algorithms

PUBLICATION

SoK: A Tale of Reduction, Security, and Correctness   ESORICS 2023 | Springer LNCS
Co-authored with SRI International, Georgia Tech, Stony Brook & U. of Arizona
- Built DebloatBench, a benchmarking framework for evaluating C/C++ software debloating tools

OPENSOURCE

PandasAI | *Python, LLM, AI*
- Added Gemini and Google LLM integrations to an open-source AI data analysis library (23K+ GitHub stars)

ng-select | *Angular, TypeScript*
- Fixed keyboard navigation bugs in a popular Angular select component (400K+ weekly npm downloads)

BatteryPermissionHelper | *Android, Kotlin*
- Created and maintained a library for whitelisting Android apps in battery optimization settings (20K+ downloads)

PROJECTS

SafeHerit | *Angular (TypeScript), Node.js, Serverless, Firebase (Functions, Firestore, Storage)*
- Built a zero-knowledge encrypted digital vault for estate planning on Firebase, with client-side encryption and per-recipient access control; keys never leave the user's device
- Designed Pulse Check, an automated liveness verification system triggering multi-step beneficiary disclosure upon confirmed inactivity

Manage My Dojo | *React (TypeScript), Django REST Framework, Stripe, PostgreSQL, Docker*
- Built a SaaS platform used by martial arts schools to manage billing, attendance, video courses, and shop sales

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Kotlin, SQL, HTML/CSS, Go, C/C++
Frameworks: React, Angular, Android Native, Flask, FastAPI, Django, Node.js, Jetpack Compose
Infrastructure: Git, Docker, Kubernetes, GCP, AWS, Redis, GitHub Actions, Terraform
Databases & Tools: PostgreSQL, MongoDB, GraphQL, Pandas, NumPy, Claude Code, Cursor

AWARDS

Winner, IEEE & Stacks Hackathon (2021): 1st out of 75 teams | Implemented marketplace on custom blockchain
Certificate of Excellence, Tajir (2023): Recognized for outstanding technical contributions