

MUHAMMAD HAMZA ALTAF

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EXECUTIVE SUMMARY

Seasoned CTO and Product Manager with 7+ years of experience. Founded 4 startups—3 failed, 1 acquired (SOOP, scaled to 700K+ users)—showcasing resilience and innovation. Seeking software engineering roles to build scalable, performant and impactful solutions.

EDUCATION

The University of Texas at Austin – McCombs School of Business May, 2025
Master of Science, Information Technology & Management
Lahore University of Management Sciences May, 2017
Bachelor of Computer Sciences

EXPERIENCE

BackOps AI – Transforming the supply chain operations San Fransisco, CA
Founding Full Stack Engineer March 2025 - Present
• Led development of co-pilot for supply chain back office, resulting in **acquisition of 11** enterprise clients

SOOP Technologies (Acquired) – Pakistan's leading school management software Lahore, Pakistan
Co-founder & CTO January 2019 - June 2024
• Led the development team to build and scale SOOP for **470+** institutions serving over **700K students**
• Implemented a **RAG-based AI** solution using Pinecone and LLM APIs cutting exam creation time **by 90%**
• Streamlined the education loan process by integrating with 3 banks, generating **4,000 loan applications**
• Designed and deployed near real-time ETL workflows using Kafka, Ruby on Rails, BigQuery and Data Bricks, accelerating insights for marketing and operations **teams by 3x**

Hyly.AI – AI-powered marketing suite for Multifamily Ashburn, VA
AI Product Manager March 2022 - April 2024
• Spearheaded the specifications, wireframes, development, and testing of Hyly's Gen AI based email and chat AI, driving **25% increase** in apartment leasing agreements
• Collaborated with data and success teams to optimize training data boosting **chatbot accuracy to 81%**
• Led the migration of our react applications from **version 16 to 18**, leveraging concurrent rendering and automatic batching to achieve a **20% improvement in performance**

Hyly.AI – AI-powered marketing suite for Multifamily Ashburn, VA
Product Manager April 2021 - March 2022
• Led development and design efforts to revamp 6 different products into one suite, boosting **ARR by \$200K**
• Established test-driven development using Capybara, Cucumber and Rspec reducing **bugs by 45%**

Ailaaj.pk – Pakistan's first healthcare startup to raise \$1M Lahore, Pakistan
Full Stack Developer January 2017 - May 2019
• Integrated 4 diagnostic labs enabling users to order lab tests from Ailaaj generating **700K PKR revenue**
• Developed and deployed a clinic management system for **4 major hospitals**, optimizing patient workflows

PROJECTS

Stars Mobile App (10K+ downloads) September 2021 - January 2022
• Led the development of a mobile app for Pakistan's largest college entrance institution
Hayley Mail, Chat and Voice November 2023 - April 2024
• Led the data architecture, ingestion, and onboarding for Hyly's Gen AI products and deployed to **7 clients**
Parchay – Enable students to make money while preparing for their exams June 2024 - September 2024
• Led team of designers and developers to develop and deploy gamified exam preparation app for students

SKILLS

- **Tools:** Jira, Big Query, Databricks, Redis, AWS, RDS, DynamoDB, MongoDB, Spark
- **Languages & Frameworks:** Ruby, Python, FastAPI, Rails, Kafka, Flask, SQL, no-SQL, Langchain