

MOHIT KHARE

Software Engineering



PROFESSIONAL SUMMARY

Results-driven Software Engineer with a strong passion for building high-performance, scalable systems. Demonstrated expertise in AI/ML, Python, Spark, Kubernetes, Terraform, and Cloud Computing, with a proven track record of solving complex problems and driving significant improvements in cost, performance, and scalability. Notable achievements include re-architecting a core AI/ML data pipeline to reduce runtime by 94% and costs by 75%, as well as optimizing cloud services to achieve an 8x increase in processing while cutting expenses by 80%. Committed to clean code and innovative system design, eager to tackle challenging projects that create meaningful impact.

CERTIFICATIONS

HTML Essential Training

Usable Security

Programming Foundations: Object-Oriented Design

Software Security

WORK HISTORY

Software Engineer 2, 05/2025 - Current

Demandbase, Hyderabad, India

- Led the complete overhaul of the AI-driven NER pipeline (spaCy on Spark + GPU), reducing runtime from **56 hours to 3 hours**, and cutting costs by **75%**.
- Owned and stabilized the complex, ambiguous Unified Technographics project, reducing data upgrade time by **90%** (from 4 days to 30 minutes).
- Drove **\$8K/month** in S3 cost savings through proactive data upkeep and optimization.
- Winner of the "Velocity Hacker" prize (**\$75,000**) at the September 2025 AI: Show & Tell for the "Keystone AI" project.
- Led the legacy technographics catalog migration, enhancing data integrity and scalability.
- Fixed critical security vulnerabilities and upgraded EMR infrastructure as part of a company-wide shift-left strategy.

Software Engineer, 08/2023 - 05/2025

Demandbase, Hyderabad, Telangana

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WEBSITES, PORTFOLIOS, PROFILES

- www.linkedin.com/in/themohitkhare

SKILLS

Artificial Intelligence (AI)
Multi-agent Systems
NumPy
Python
Scala
Apache Spark
Kubernetes
Docker
Terraform
Amazon Web Services (AWS)
System Design
Microservices
OpenSearch
SQL
NoSQL (MongoDB, Redis)
Problem-Solving

- **Kubernetes Migration:** Migrated the Render Crawler from AWS Lambda to Kubernetes, leading to an **8x increase** in domain processing, handling 33 million domains in 5 days, and an 80% cost reduction (**from \$10,000 to \$2,000**).
- **Cost-Effective Geotagging:** Geotagged **4.5 million** locations using Pelias instead of Google APIs, achieving a 95% cost reduction (**from \$10,000 to \$500**).
- **Improved Catalog Generation:** Integrated a local database into the catalog generation process, enhancing system reliability, and reducing reliance on file-based processes. This increased operational speed and consistency.
- **Automation and Cost Optimization:** Standardized Kubernetes compute implementations across teams, optimizing costs, and reducing manual intervention by automating key processes, improving overall system reliability.
- **Technical Leadership and Mentorship:** Conducted internal training on Kubernetes and mentored teammates on catalog update validation, contributing to cross-team knowledge sharing, and improving technical capabilities within the team.
- **AI Hackathon Winner:** Won a company award for "Most Impressive Technical Implementation" in an AI Hackathon. Developed an AI-Powered Outreach Assistant (DBX) that utilizes machine learning to enhance the sales outreach process by identifying high-potential leads and automating personalized outreach.

Senior Software Engineer, 10/2022 - 08/2023

Fynd (Shopsense Retail Technologies Ltd.), Bengaluru, Karnataka

- Accelerated API performance by optimizing code, reducing response time by **80%**.
- Streamlined implementation by refactoring, dramatically decreasing Redis keys from billions to thousands.

Software Engineer, 09/2021 - 10/2022

Fynd, Mumbai, Maharashtra

- Elevated system performance by **200%** through the implementation of a system-wide price cache.
- Boosted the processing capabilities of the search system by **1,000%** through improvements.
- Enhanced the search system by adding pincode support for 1.5 million products, without compromising performance.
- Aligned the taxation system with recent government changes to tax rules through a revamp, supporting around 20,000 different tax codes.
- Overcame memory limitations and enabled the system to handle three times larger files through the resolution of memory issues.
- Designed and optimized several APIs, including one capable of supporting up to **50 million daily updates**, for faster response times.

Senior Software Engineer, 04/2021 - 09/2021

Odessa, Bengaluru, Karnataka

- Responsibilities include bug fixing, regression testing, and deployment for software releases, providing technical support to all other teams with any kind of internal queries, and code issues.

- Member of the Hyper Care team, which handles critical and immediate client defects and features.
- Responsible for OCR document support for the application.

Software Engineer, 05/2019 - 04/2021

Odessa, Bengaluru Area

- Facilitated API support for core software components, like Comments and Documents.
- Handled multiple software vulnerabilities within documents and request components.
- I initiated and took sole responsibility for automating regression testing and the software release process, reducing the delivery time from a **week to 5 hours**.

Internship Trainee, 12/2018 - 05/2019

Odessa, Bengaluru Area

- Internal training and assessment for eligibility. Aced all the tests and questioners. Went beyond during the keystone project and delivered a bug-free and feature-rich employee management module.
- Only intern to be select for the core framework team, which is responsible for in-house development framework.

EDUCATION

Bachelor's Degree, Computer Science, 05/2019

SRM University - Chennai

High School, Computer Science, 01/2015

St. Michael's Convent School - Mankapur

PUBLICATIONS

- Autonomous Irrigation System
- A Survey on Applications of Software Defined Networks