

Muhammad Shoaib Gondal

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EDUCATION

Kansas State University

Manhattan, KS, USA

MS in Computer Science (GPA: 4.0/4.0 [Transcript](#))

Aug. 2025 – Dec 2027

- **Relevant Coursework:** Analysis of Algorithms, DBMS, Formal Language Theory, Programming Languages

EXPERIENCE

Software Engineer

Feb. 2023 – Mar. 2024

Qualitex Trading

Remote

- Maintained and enhanced a business-critical platform supporting core business operations, implementing new features, improving existing functionality, and adapting the system to evolving business requirements.
- Developed and maintained backend services using **PHP/Laravel** and **Node.js**, working across applications and **SQL** database layers to debug issues, optimize operations, and improve system reliability and performance.
- Worked across ecosystem of 5+ interconnected applications, developing **RESTful APIs** to integrate internal and external system components and enable data exchange across the platform.

Graduate Research Assistant

May. 2026 – Present

Kansas State University - Konkordant Lab

Manhattan, KS, USA

- Collaborating with **Dr. Hande McGinty** and **Dr. Atalay Mert Ileri** on a formally verified reasoner in Coq, developing machine-checked proofs of mathematical and algorithmic correctness to strengthen foundations of theoretical computer science.

Graduate Teaching Assistant

Aug. 2025 – May. 2026

Kansas State University

Manhattan, KS, USA

- Taught **50+ students** Python and DSA, developing problem-solving skills through one-on-one coaching, detailed feedback, and communicated regularly to identify weaknesses and improve their academic performance.

AI Training Data Contractor (Algorithms)

Jul. 2024 – Jan. 2025

ShipD

Remote

- Crafted and tested **100+** complex algorithmic problems (LeetCode-style) in **TypeScript** and **Python** to generate high-quality training datasets for LLMs. Authored optimal solutions, edge-case test suites, and strict time/space complexity analyses to ensure data integrity for AI training pipelines

Automation (QA) Internship

Aug. 2022 – Nov. 2022

VentureDive

Remote

- Accelerated QA deployment cycles by implementing JUnit frameworks for functional and integration testing, and systematized testing methodologies within a collaborative, Agile-driven environment.

COMPETITIVE PROGRAMMING

LeetCode Knight: Rating 1998 (Top 3% globally), 800+ problems solved

Codeforces Specialist: Max rating 1444, 750+ problems solved

Meta Hacker Cup: Qualified for Round 2 (2022, 2023) **Google Kick Start:** Top 5% ranked participant (2021, 2022)

PROJECTS

EstatePermit | *Python, FastAPI, React, TypeScript, Multi-Agent AI, RAG*

June 2026 – Present

- Building an **industrial-scale** multi-agent permitting platform: 5 AI agents parallel-analyze zoning, building code, environmental, and utility rules, then output a cited compliance report and permit package
- Production-oriented stack with jurisdiction knowledge packs, human approval gates, audit trail, and scalable FastAPI + React architecture for multi-city rollout

KompAI | *React 19, Vite, HuggingFace API, LLM*

Feb 2026

- Built an AI-powered no-code web design platform enabling real-time page creation, live preview via sandboxed iframes, and direct DOM editing through click-based inspection
- Integrated **5+ LLMs via HuggingFace Inference API** to generate and modify HTML, CSS, and JavaScript from natural language prompts, supporting multi-file editing and ZIP imports

TVD | *Node.js, MySQL, PHP, JavaScript, REST APIs*

Sep 22 - Jan 23

- Developed a scalable full-stack short-video platform supporting high-volume media uploads, video playback, and dynamic user feeds. Used dynamic search, hashtag and following functionalities
- Engineered secure authentication with **2FA** and role-based access control, preventing unauthorized access to protected resources