

Ishaan Bhagwat

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EDUCATION

Texas Christian University, College of Science and Engineering Bachelor of Science (cum laude), Computer Science Awards: 90% Merit Scholarship, 2x TCU Scholar, 4x Dean’s List	Fort Worth, TX May 2025 GPA: 3.6/4.0
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TECHNICAL SKILLS

Languages: Java, Go, C++ | **Scripting:** Python, JavaScript | **AI:** Langchain, LangGraph, RAG, Meta-Prompting, MCP/tool-calling
API Frameworks: FastAPI, Spring, Express/NodeJS | **Frontend Frameworks:** React, Next, Vue
Cloud Platforms: Terraform, Kubernetes, Docker, AWS (EC2, S3, ECR, EKS) | **Databases:** PostgreSQL, MongoDB, Redis

EXPERIENCE

Trailspur Capital Partners, Fort Worth TX Software Engineer Private Commercial Real-Estate Investment Firm leveraging Value-Add investment strategy.	<i>Sep 2024 - Apr 2025</i>
<ul style="list-style-type: none">• Led 8-month senior design project building end-to-end commercial real estate analytics platform on AWS infrastructure.• Developed a deal sourcing platform with pluggable geodata sources for 3 appraisal districts and automated investment criteria-based data filtering to reduced manual deal sourcing workflows by 80%.• Leveraged vector overlay algorithm to spatially join 50K+ property parcels with CoStar marketplace listings, enabling quantitative trend analysis across 4 industrial submarkets.• Wrote an algorithm for ownership change detection using pandas masking and set operations to diff quarterly data refreshes, enabling identification of high market volatility areas and tracking ownership movements.• Facilitated weekly client/team meetings for requirements gatherings, progress demos, and agile software development.	
Rubiscape Distributed Systems Intern One of India’s leading startups, offering a drag’n-drop ML automations platform to large public sector clients.	<i>May 2024 - Aug 2024</i>
<ul style="list-style-type: none">• Prototyped a Kubernetes-native ML workflow orchestration engine in python, using topological task dependency resolution and push-based concurrency model, achieving 5x faster workflow execution time than sequential processing.• Wrote the task scheduling service with Redis queues and Kubernetes Jobs for dependency-aware batch processing, execution status management and graceful container termination in case of failure.• Automated infrastructure scaling (HPA) based on queue depth and resource utilization, reducing operational costs by 5%.• Benchmarked various concurrency solutions such as using green threads, subprocess and multi-threading model.• Documented system architecture and created team knowledge-sharing resources for distributed systems design patterns	
Headstorm, Addison TX Software Engineering Intern	<i>May 2023 - Aug 2023</i>
<ul style="list-style-type: none">• Built a reusable React/Typescript profile interface used by 150+ employees internally to highlight skills and experience.• Achieved 15% faster page loading speed by migrating REST API calls to GraphQL across the user interface.• Met 95% code coverage target using JUnit and Playwright for Unit + End-to-End tests, automated by GitHub Actions.• Collaborated in Agile environment: Participated in pair programming, code reviews, Agile Scrum, and UAT feedback	

PROJECTS

Email Management Agent – Python, LangGraph, LangMem	<i>May 2025</i>
<ul style="list-style-type: none">• Built an LLM-powered email assistant for spam filtering, priority tagging, and reply drafting, using LangMem for semantic memory storage and retrieval to maintain conversation history and enable context-aware responses.	
PDF Retrieval Augmented Generation Chatbot – Golang, Weaviate, React	<i>May 2025</i>
<ul style="list-style-type: none">• Developed a performant Question Answering chatbot API with concurrent request handling, PDF parsing, chunking & embedding, hosted weaviate vector-store, and cosine-similarity retrieval for context-chained LLM outputs.	
TCU Anonymous Peer Evaluation System	<i>May 2024</i>
<ul style="list-style-type: none">• Developed a Spring Boot web REST API with MVC architecture and rolled custom authentication. Utilized Test Driven Dev• Configured CI/CD for Azure WebApp container deployment and enabled data persistence through managed Postgres server	
C++ Multi-threaded HTTP Server	<i>Dec 2024</i>

LEADERSHIP EXPERIENCE

Student Government Representative, Resident Advisor, CS Teaching Assistant, Orientation Leader, Senior Design Lead.