

TANISHPREET SINGH SIDHU

(pronounced: Taniš)

B.Tech**FinTech & Agentic AI**tanishpreet.official@gmail.com | [linkedin.com/in/tanishsidhu](https://www.linkedin.com/in/tanishsidhu)**Valid Serbian Work Permit**

PROFESSIONAL SUMMARY

Software Engineer focused on applied AI and agentic architecture, bringing 7 years of enterprise software experience building and managing high-volume FinTech implementations. I specialize in integrating language models with business applications, and I design agentic workflows that solve complex operational problems. Certified in modern AI development, I go beyond just experimenting with these tools; I ship with them. Leveraging my engineering background and combining my robust C#, Python and SQL foundation with practical AI techniques, such as local model fine-tuning and rigorous testing, I build complete, production ready AI solutions. Based in Belgrade, Serbia, with full work authorization and no visa sponsorship required.

SKILLS & COMPETENCIES

Languages and Databases: C#, Python, SQL (T-SQL, PostgreSQL), Entity Framework, LINQ, HTML, JavaScript

AI & Applied Engineering: Local LLM Fine-Tuning (e.g., Llama 3B), RAG Architectures, Agentic Workflows, LLM API Integrations (Anthropic, OpenAI, DeepSeek), Prompt Engineering, Claude Code, Cursor, Codex, OpenClaw, Hermes AI, LangGraph

Cloud & DevOps: Git, Azure (Functions, CloudOps), Supabase, Vercel, CI/CD Pipelines, Postman

Data Analysis, Visualization, & Collaboration: Microsoft Office Suite, Power Automate, JIRA, ServiceNow, Confluence, Slack

PROFESSIONAL EXPERIENCE

ODESSA (FinTech, Asset Finance Product)

Technical Lead – (April 2025 – May 2026)

Staff Engineer – (April 2024 – March 2025)

Senior Software Engineer – (April 2022 – March 2024)

Software Engineer – (June 2020 – March 2022)

Intern – (June 2019 – May 2020)

June 2019 – May 2026

Belgrade, Serbia

Bengaluru, Karnataka, India

- Led a globally distributed engineering and functional team across **U.S, India and Serbia**, delivering complex FinTech implementations for enterprise clients with over **\$5 billion in revenue**. Alongside core technical delivery, championed internal AI initiatives by exploring integrations with external AI vendors to build intelligent features for our clients.
- Drove the adoption of AI developer tools across the engineering team, integrating **Claude Code**, **Cursor**, and **Codex** directly into daily workflows. Utilized these models to accelerate code generation, assist in deep debugging, and establish practical standards for **AI assisted development**.
- Owned core backend development and deep system diagnostics for high stakes enterprise environments, supporting global clients including **Hewlett Packard Enterprise, Canon, GE Capital, Volvo, and TD Bank**. Engineered robust solutions using **C#** and **SQL** to resolve complex transactional discrepancies for these clients, ensuring the strict data integrity required for accurate financial processing and downstream integrations.
- Engineered high performance database solutions using **SQL query optimization** techniques, successfully improving system **performance by up to 70%**. Refactored complex stored procedures to ensure the rapid, scalable data retrieval necessary for high volume enterprise platforms.
- Handled **API integrations and troubleshooting** to seamlessly connect enterprise client workflows, utilizing **Postman** to inspect raw requests and responses and validate payload structures. Debugged failing endpoints and data mapping errors, directly assisting client teams in successfully embedding Odessa APIs into their core business workflows.
- Managed **cloud deployments** and both internal and production releases across **Azure** environments. Handled complex versioned releases, including preparing manual release content and executing controlled deployments when automation was not feasible, ensuring strict rollback readiness and minimal downtime.
- Maintained engineering standards through rigorous peer **code reviews** and comprehensive **unit testing**. Ensured the delivery of clean, maintainable code that minimized post-release bugs and reduced overall rework.
- Supported full-cycle feature development and **product upgrades**, from initial code integration through **performance testing**. Led UAT sessions with business stakeholders to ensure technical deliverables met exact business requirements before release.

PROJECTS & ENGAGEMENTS

- **Payload-Gen | Locally Fine-Tuned LLM & RAG Architecture** – Architected a natural language to API payload generator by combining a retrieval augmented generation pipeline for schema retrieval with a locally fine-tuned Llama 3B model. Designed deterministic evaluation methods to validate output, achieving a 95% valid JSON payload generation rate on unseen enterprise API specifications. Demonstrated a secure, low latency, on-premise alternative to frontier models for high volume enterprise integrations. (github.com/tanishsidhu/payloadgen)
- **Support-Agent | Autonomous Agentic Workflow** – Developed an autonomous support agent prototype utilizing an agentic loop architecture and DeepSeek to handle enterprise ticket classification. Engineered a retrieval system to pull resolution evidence from historical documentation, enabling the agent to autonomously draft highly accurate, cited responses. (github.com/tanishsidhu/supportagent)
- **Pokrit | Full Stack AI SaaS** – Built and deployed an end to end AI SaaS platform that autonomously scrapes job boards and utilizes language models to match live listings against user resumes. Engineered the backend using C#.NET 8 Azure Functions and Supabase (PostgreSQL), with a Next.js frontend, generating daily digest emails with fit scores and automated cover letters. (pokrit.vercel.app)
- **OpenClaw Skill | Custom Agent Deployment** – Developed a specialized OpenClaw agent skill to automate job discovery across platforms like LinkedIn, Poslovi Infostud, and HelloWorld.rs. Integrated DeepSeek LLM configuration to process scraped listings, score roles against technical profiles, and deliver structured, formatted data digests. (clawhub.ai/tanishsidhu/job-search-skill)
- **PeakOrLow | LLM API Integration & Web Application** – A full stack market briefing web application utilizing C# and ASP.NET Core. Integrated the Anthropic Claude API to process data and generate automated intelligence summaries. (github.com/tanishsidhu/peakorlow, peakorlow.azurewebsites.net)

AWARDS & CERTIFICATIONS

- **Building with the Claude API** – *Certified by Anthropic*
- **Claude Code in Action** – *Certified by Anthropic*
- **SQL** – *HackerRank Skill Certification*
- **Python Professional** – *OpenEDG Python Institute & LinkedIn Learning*
- **LangGraph Essentials** – *Certified by LangChain Academy*
- **Foundations of Project Management** – *Certified by Google and Coursera*
- **Artificial Intelligence Essentials** – *LinkedIn Learning Program*
- **Data Structures & Java** – *Certified by Coding Ninjas*

EDUCATION

CHITKARA UNIVERSITY - (CGPA: 9.17)

Bachelor of Technology – BTech, Computer Science

2016 – 2020

Rajpura, Punjab, India

GIAN JYOTI GLOBAL SCHOOL | THE BRITISH SCHOOL - (CGPA: 10.00)

High School – 10th to 12th Standard

2014 – 2016

Chandigarh, India

LANGUAGES

- **English** – *Full Professional Proficiency*
- **Hindi** – *Native Proficiency*
- **Punjabi** – *Native Proficiency*
- **Serbian** – *Beginner*