

Jai Shukla

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EDUCATION

- Indian Institute of Technology Kharagpur, India**

B.Sc. (Hons) + M.Sc. in Chemistry

July 2016 - May 2021

SKILLS SUMMARY

- AI & Agentic:** Software Development Agents (OpenHands SDK), Agentic Workflow, RAG, LangGraph, Context Engineering
- Cloud & DevOps:** AWS, Azure, GCP, Kubernetes, Docker, Virtual Private Cloud (VPC) Development, CI/CD
- Architecture & APIs:** Microservices Architecture, OpenAPI, RESTful API Design, Hono, Socket.io, Yjs, Graph API
- Programming:** .NET (C#/VB), TypeScript, Python, Rust, C
- Frameworks & Tools:** React, Next.js, FastAPI, Node.js, Actix, Tauri, PostgreSQL, WebGL, OpenCV

EXPERIENCE

- Founding Engineer**

SlidelyAI (YC Backed Startup), Bengaluru, India

Feb 2025 - Present

- Engineered a high-fidelity graphics tracing pipeline leveraging Generative AI, computer vision, and autonomous feedback agents; integrated the system across distributed microservices
- Architected and deployed a cross-platform React-based application to port legacy Windows add-ins to macOS, ensuring feature parity and seamless user experience
- Created AI workflow combining TypeScript server, C# engine, and VB.NET React client for AI based slide editing
- Unlocked web app integration within PowerPoint, enabling users to generate AI slides directly from the application
- Developed routines for accessing files from OneDrive and SharePoint using the Microsoft Graph API
- Developed services in AWS and APIs for handling AI workflows and user data management

- Founder**

Vasinya Yunaan (Startup), Pune, India

Jun 2024 - Jan 2025

- Built a web platform (Node.js, React, FastAPI) to analyze over 10,000 patents, identifying market trends in diagnostics
- Implemented RAG models for market and technology gap analysis using OpenAI APIs to evaluate the go-to-market strategy
- Built a dashboard for analyzing customer feedback on over 1,000 pharmaceutical products by scraping customer testimonials
- Pitched to incubators and venture firms, and networked with investors to raise an initial \$20,000 in funding

PROJECTS

- Architectural Intelligence Project**

AI-driven architectural workflow and context management system

Feb 2026 - Present

- Engineered a hybrid SQL/NoSQL Firebase backend for robust licensing and high-performance chat storage
- Developed multi-agent collaboration system using WebSockets and Yjs for synchronized user and AI interaction on Revit files
- Built a custom Autodesk Revit connector establishing a high-speed bridge between Revit's software and web-hosted UI
- Developed the 'Open Viking' agent tool for long-context management using data chunking to eliminate context pollution
- Authored TypeScript libraries to integrate Rclone as a backend provider, enabling flexible, user-defined storage solutions
- Developed a Qdrant TypeScript library for a vectorized knowledge base enabling precise querying of architectural assets
- Developed hybrid JSONPath-Emmet query language to traverse hierarchical Revit structures and extract data for AI agents

- Google Summer of Code Contributor**

Open Chemistry, University of Pittsburgh, USA

June 2021 - August 2021

- Developed WebGL pipelines for enhanced biomolecule visualization, contributing to open-source advancement
- Created a UI for dynamic atom identification and labeling, leveraging WebGL-based visualization pipelines Link

- Software Developer Intern**

Dubbtr, Mumbai, India

June 2017 - August 2017

- Developed a real-time whiteboard application using jQuery, Socket.io, WebRTC, and Bootstrap for remote learning
- Built a WebRTC-powered video conferencing platform for classrooms, featuring chat and image sharing

AWARDS AND ACHIEVEMENTS

- Second Place, Siemens MakeItReal Hackathon**

Built a full-stack security system with real-time alerts and integrated hardware for personal protection

2019

- First Place, Product Design Competition, INAE Youth Conclave**

Designed a novel bandage to aid in the control of bleeding from severe wounds

2019

- Participant, Clinton Global Initiative - University, The University of Chicago**

Pitched an innovative farm machine design for efficient stubble management during harvest

2018

Seeking hard technical problems.