

# Jai Shukla

jaishukla7768@gmail.com | +91 7872913111 | LinkedIn | GitHub | Google Scholar

## EDUCATION

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- Indian Institute of Technology Kharagpur, India**

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

*July 2016 – May 2021*

## SKILLS SUMMARY

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- 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

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- Founding Engineer**

- SlidelyAI (YC Backed Startup), Bengaluru, India*

*Feb 2025 – June 2026*

- 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

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- Agent OS**

- Unified agentic operating layer for office, browser and application automation*

*June 2026 – Present*

- Building a cross-platform desktop application in Rust and Tauri on top of the Hermes agent runtime, bringing office, browser and application automation, deployment and hosting under a single banner
- Designed the agent runtime and tool layer so a single client drives native desktop applications, browser sessions and remote infrastructure through one permission and execution model
- Built specialized agent builder tooling that decomposes work into strong single-task agents for PPTX, Word/DOCX, video, games, design, portfolio and website generation
- Agents ship complete production applications rather than single-file demos, generated with the production environment features required to launch — auth, persistence, configuration, build and hosting pipelines

- Architectural Intelligence Project**

- AI-driven architectural workflow and context management system*

*Feb 2026 – April 2026*

- Developed multi-agent collaboration system using WebSockets and Yjs for synchronized user and AI interaction on Revit files, backed by a custom Autodesk Revit connector bridging Revit and a web-hosted UI
- Developed the 'Open Viking' agent tool for long-context management using data chunking to eliminate context pollution
- Built a Qdrant-backed vectorized knowledge base and a 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

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- **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