

SHUBHAM SINGH

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SKILLS

Software Engineering & Infrastructure : Python, Go, Java, C++, Microservices, System Design, Distributed Systems Concepts, Linux

Full Stack Development : React, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, Vercel, Cloudflare, AWS

AI, ML & Data Technologies : SciKitLearn, LLM Pipelines, LangChain, LlamaIndex, Data Modeling, CUDAs, Pytorch, TensorFlow, Stakeholder Management

Cloud & Deployment : WS, Docker, Kubernetes, CI/CD, PostgreSQL, MongoDB, Redis, Cloudflare

WORK EXPERIENCES

Google Summer of Code | Internship May 2026 - Aug 2026 Remote
Machine Learning Engineer

- Integrated, tested, and documented features in compliance with **NumFOCUS standards**.
- Integrated, tested, and documented new features, **merging 9+ PRs in compliance with NumFOCUS open-source standards**.
- Developed production-ready GWPCA implementation for PySAL, **enabling localized dimensionality reduction and achieving >90% test coverage**.

Technologies / Skills Used : Python, Matplotlib, SciKitLearn, Django

AI Product Engineer | Internship Apr 2026 - Jul 2026 Hybrid • Delhi
Veda AI

Contributed to building the startup product - Veda AI.

- **Engineered 20+ core AI product features, including LLM orchestrators for batch question generation and self-improving RAG systems, enhancing concept resolution capabilities.**
- Designed and implemented **scalable APIs and database schemas, reducing workflow latency by 20% through optimized system design** and LLM pipeline integration.
- **Resolved 100+ bugs and feature requests** during iterative product development.
- Built LLM-powered pipelines **using OpenAI APIs for automated content generation and assessment, saving 50 hours per week** for customers.

Technologies / Skills Used : System Design, Databases, AI, LLMs

Full Stack Developer | Internship Jul 2025 - Oct 2025
Dualite

Worked as a full stack developer and took end to end initiatives for development for projects.

- **Architected and deployed 100+ production-grade websites for client tutorials and the Build Wars event, driving a 25% surge in San Francisco event registrations and new user sign-ups.**
- **Streamlined** social media marketing workflows by automating outreach processes with n8n, [Make.com](#), and Vapi, saving XX hours per week.
- **Contributed** to PRDs for **Pehchaan AI**, Dualite's open-source multilingual, mobile-first website builder project.

Technologies / Skills Used : Node.js, Express, n8n, NextJs, Hugging Face, Vercel, MongoDB

Contributor (Intern) | Internship Jun 2025 - Sep 2025
Google Summer of Code

Developed an **assistive computer vision-based educational system** that enables visually impaired children to learn music using tactile Lego blocks, creating an accessible learning interface that converts physical block layouts into musical notes.

- **Engineered** a **JavaScript-based block-to-audio mapping engine** that translates physical Lego arrangements into real-time musical notes with **<200ms response latency**.
- **Proposed** and executed a block-to-sound mapping algorithm, increasing recognition accuracy by **~30%** during initial user testing.
- **Produced** comprehensive project documentation and interactive tutorials, reducing onboarding time for new contributors by **~40%** and enhancing project maintainability.

Technologies / Skills Used : JavaScript, Computer Vision, Ejs, Node.js

AWARDS & ACHIEVEMENTS

4 x Hackathon Winner Aug 2026

Won Across 3 National Level Hackathons and 1 Global Level Hackathon starting from first year itself.

Co Founder and Founding Engineer Feb 2026
gemnar.com

Founded and built an AI-powered UGC ad generation platform with multi-model pipelines, reducing video ad production time by **80%**.

EDUCATIONS

Indian Institute of Information Technology, Sonapat Aug 2024 - Aug 2028
BTech (4 years)