

# Shivam Garg

San Francisco, CA | [shivamg2604@gmail.com](mailto:shivamg2604@gmail.com) | [linkedin.com/in/shivammgarg](https://linkedin.com/in/shivammgarg) | [github.com/22shivam](https://github.com/22shivam) | [shivamg.com](https://shivamg.com) | 8127786998

## EDUCATION

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### Indiana University Bloomington

*B.S. in Computer Science and Mathematics* | GPA: 3.9

- **Achievements:** Wells Scholar (**full-ride scholarship**, ~12 awarded yearly), National Cricket Player (Singapore)
- **Relevant Coursework:** Machine Learning, Computer Vision, Distributed Systems, Algorithms, Operating Systems, Real Analysis, Abstract Algebra

## EXPERIENCE

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### Founding Engineer at Scowtt

San Francisco, CA, September 2025 – Present

- Architected and productionized config-driven general Vertex AI pipelines, replacing FDE-style per-client custom code with standardized deployments for hourly data ingestion, online inference, and weekly retraining—**cutting enterprise customer onboarding time from 4 weeks to 2 weeks** and enabling parallel multi-client launches.
- Built and deployed lead-value prediction models using GA4 and CRM features, streaming real-time scores via Cloud Run into Meta and Google Ads Conversion APIs for automated bid optimization.
- Worked directly with two enterprise clients to translate ad optimization goals into reusable ML systems, **driving +59% ROAS in Search and +80% in PMax** and supporting **Scowtt's \$60M Series A**.

### Software Engineer at AGI Labs

Bloomington, IN, January 2025 – October 2025

- Built an **automated payments and invoicing system** via the Stripe API, **saving 15–20 hrs/week** in manual work for our client, MediaTeam, a marketing agency.
- Developed a scalable **ad-tech analytics pipeline** pulling spend/ROI data from Google Ads, Meta, and TikTok APIs; providing MediaTeam with **dashboards with <1% sync failure and 5-min data freshness**.

### Software Engineer and Co-founder at Spindl

November 2021 – May 2022

- Launched **multi-chain crypto checkout platform** with NFT showcase features, enabling simple link-based transfers and embeddable merchant widgets. (React, Node.js, MongoDB, AWS)
- Deployed with **EC2 Auto Scaling + Docker**, CI/CD pipelines, and monitoring via **Prometheus/Grafana**.
- Drove adoption to **10k+ users** with early viral growth strategies. Secured ~\$6k in funding from IU's Student Accelerator.

## PROJECTS

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### LLM-Powered Automated Podcast Clipping

- Built a full-stack platform for **auto-generating 10-15 short viral clips from long podcasts**, leveraging Whisper transcription + Gemini LLM for highlight detection and computer vision (active speaker detection) for speaker-aware framing.
- Designed a cloud-native processing pipeline with AWS S3, Inngest queues, and serverless GPUs on Modal, enabling asynchronous, **fault-tolerant video rendering with scalable GPU acceleration**.

### Reentrant Distributed Lock Service

- Designed a **fault-tolerant distributed lock manager** in Python on top of an etcd cluster, supporting reentrant locks, auto-renewal, and structured logging.
- Ensured safe concurrency and job scheduling with a 3-node deployment **benchmarked at 5k+ ops/sec and <40ms latency**. Delivered with Docker Compose setup and 50+ test suite.

## TECHNICAL SKILLS

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- **Languages:** Python, C, C++, Javascript, TypeScript, SQL, Java, HTML/CSS
- **Frameworks:** React, React Native, Node.js, Next.js, PyTorch, OpenCV, Jest, PyTest
- **Cloud & Tools:** PySpark, MLflow, LangChain, Hugging Face, AWS, Docker, Kubernetes, Git, PostgreSQL