

Vivek Agrawal

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Overview

Full-stack engineer who thrives in taking responsibility end-to-end — from understanding an ambiguous problem to deploying the code to production. I value **simplicity** and **understanding of the fundamentals**.
I recently built [ListenUser](#) all by myself — a B2B customer support tool built with Django and Vue.

Skills

Backend proficiency: **Python, Django, PostgreSQL, Concurrency, RESTful APIs.**

Frontend proficiency: **Vue, JavaScript, CSS, UX Design.**

Infrastructure proficiency: **Docker, Nginx, Linux.**

Working knowledge of **C** and **C++**.

Comfortable with **Cursor** and experienced with **utilizing LLMs** to develop product features.

Work Experience

Founder (Jan 2025 — Aug 2025 • 8 months)

ListenUser • Remote • Full-time

- Observed SaaS companies using Intercom and a feedback tool like Canny on top of that. This was the insight for building [ListenUser](#) (Vue and Django) as a customer support plus feedback tool for SaaS companies.
- Used Postmark's inbound processing for auto-forwarding of incoming emails to the ListenUser inbox. Implemented realtime in-app notifications via WebSockets to alert team members when they are mentioned on a thread.
- For in-app support & feedback, built a custom web element in Vue that our users could embed on their web app via a script.

Founder (Mar 2024 — Oct 2024 • 8 months)

QA Rangers • Remote • Full-time

- Trying AutoGPT hit me with the vision of QA Rangers — an AI agent for development and maintenance of end-to-end UI automation tests.
- Read research papers on autonomous web UI agents (SeeAct, You Only Look at Screens: Multimodal Chain-of-Action Agents) to build a Proof of Concept. Published [an article on how I researched and built QA Rangers' PoC](#).
- Learned about ML fundamentals, LLM training process, embeddings, vector databases and multi-modality.

Full Stack Engineer (Jul 2023 — Mar 2024 • 9 months)

Junior Python Engineer (Sept 2021 — Jun 2023 • 1 year 9 months)

Learning Equality • Remote • Independent Freelance Contract

- Led the investigation of a critical search query timing out on a large PostgreSQL table (millions of rows). Co-designed a new table with full-text search and GIN indexes, resulting in an optimized query that prevented timeouts. Here's [the PR that introduced full text search to the backend API](#) and [this PR introduced the new models](#).
- Helped design a deployment architecture in Ray to handle pre-processing, post-processing and scalable computation of an internal embeddings model for recommendations.
- Experienced working on offline-first architecture and synchronization of data between simultaneous clients and a central server.

Google Summer of Code 2021 Student Developer (Jun 2021 — Aug 2021 • 3 months)

Learning Equality • Remote

- Developed an async task registry and custom Python decorator to register long running functions for future processing ([See PR](#)). As a result, we were able to decouple around 20 async tasks from a monolithic module to their own Django apps.
- Introduced an API to enqueue async tasks with custom validation. Also, refactored the async task workers to enable priority based fetching of async tasks.
- I wrote an [article about my Google Summer of Code 2021](#) contributions in some detail.

Open Source and Side Projects

- Built an AI tool to generate product changelog by passing git commit messages to an LLM.
- Built a CLI based [school management system in C++](#) as a high school project.
- Launched a [free course on public key cryptography](#). Received praise from Kent C. Dodds and Cassidy Williams.
- Contributed to freeCodeCamp's curriculum expansion by building a [digital signature system](#) based on the RSA algorithm with the aim to teach public key cryptography — later recognized among [top 100 contributors of 2019](#).

Education

Bachelor's of Technology in Computer Science Engineering (2019 — 2023 • 4 years)

SSIPMT, Raipur