

Garvit Pahal

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SUMMARY

Software engineer with 9+ years of industry experience. I love working in teams that value customer delight, iteration speed, and excellence. I'm excited about how AI will change our lives and work in the next few years.

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

Kanpur, India

Bachelor of Technology, Computer Science and Engineering

2012 - 2016

- Cumulative Performance Index (CPI) of 9.6/10
- Secured All India Rank of 196 in IIT-JEE 2012 (99.97 percentile)

EXPERIENCE

FREELANCING AND HACKING

Bengaluru, India

Independent software development and research

Aug 2024 - Present

- Built a micro GPT implementation and training pipeline in PyTorch: [gpahal/microgpt](https://github.com/gpahal/microgpt)
- Built voice customer support agents for B2C finance and quick commerce companies
- Launched Ally - a WhatsApp assistant for personalised diabetes care using OpenAI
- Built an interpreter and language server for the Lox language (Crafting Interpreters)
- Studied Mathematics for Machine Learning and Deep Learning

GM LABS

Bengaluru, India

Founding Software Engineer

Apr 2022 - Apr 2024

- Architected and shipped multiple consumer products end-to-end
- Built Startup Archive - curated startup advice from the world's best founders, Perch - a long-form content aggregation app, Perch - AMA tool for creators, gm.xyz - a place to host your web3 community
- Led backend development, infrastructure setup and maintenance, AI-based article content scraping and indexing, OpenAI embedding-based article recommendation engine, web3 token gating and web/mobile UI

HARNESS

Bengaluru, India

Staff Software Engineer

Apr 2019 - Aug 2021

- Harness is a modern software delivery platform that helps enterprises ship code easily, quickly and resiliently
- Founding member of the pipeline team, building the core workflow engine powering Harness's software delivery platform, supporting durable workflows that can span multiple weeks
- Led the transition from a monolith Java app to a polyglot microservices deployment as the product offerings grew
- Contributed to an exponential 50x revenue growth during tenure

ALPHAGREP SECURITIES

Bengaluru, India

Quant Researcher and Trading Analyst

Jul 2018 - Mar 2019

- AlphaGrep is a quantitative trading and investment firm
- Researched and developed high-frequency quantitative trading strategies (statistical arbitrage) for commodity markets in China, which became my team's most profitable market

DGRAPH

Bengaluru, India

Founding Software Engineer

Nov 2017 - Jun 2018

- Dgraph is one of the most popular open-source distributed graph databases
- Launched Ratel, which is Dgraph's data visualisation and cluster management interface
- Released database clients in JavaScript (browser and node) and Python. Maintained client libraries for other languages
- Laid groundwork for the Dgraph-as-a-service platform built on top of Kubernetes

PLATO

Co-Founder

Bengaluru, India
Jul 2015 - Sep 2017

- Plato is a chat app for one-on-one career mentoring
- Conducted successful pilots during college placements and entrepreneurship events
- Funded by Commence Mint accelerator program and selected for Y Combinator Startup School
- Secured 2nd position in Microsoft Imagine Cup, India (2015) and were incubated at IIT Kanpur

NOTABLE PROJECTS

SUPERSTREAM

Feb 2022 - Jun 2022

- Superstream is a protocol and a collection of SDKs for real-time money streaming on Solana. It allows anyone to continuously send money to anyone else at any interval up to a second.
- Designed, implemented, and deployed it on devnet, testnet and mainnet clusters of Solana
- The project is open source and documented at superstream.finance

PROGRAMMING TUTORING SYSTEM

Aug 2014 - Oct 2014

- Research project under Dr Sumit Gulwani (Principal Researcher, Microsoft Research, Redmond) and Prof. Amey Karkare (Assistant Professor, IIT Kanpur)
- Launched command line and web apps to assist in teaching introductory programming courses in the 1st year of college by automating assignment and feedback generation and solution-checking
- Project deployed in the 2014-15 academic year (with 400+ enrolled students)

AREAS OF INTEREST

- Industries: Developer Tools, Software Infrastructure, Health, Education, Finance, Productivity
- Technologies: AI, Programming Languages, Databases, Distributed Systems

AWARDS AND SCHOLASTIC ACHIEVEMENTS

- Received Academic Excellence awards (2013, 2014, 2015) for outstanding performance in academics at IIT Kanpur
- Secured an All India Rank of 196 in the IIT entrance exam in 2012 out of 500,000 applicants (99.97 percentile)
- Qualified for the Indian National Mathematics Olympiad in 2010 and 2011 by securing 2nd and 5th state rank
- Received the prestigious Kishore Vaigyanik Protsahan Yojana (KVPY) from the Department of Science and Technology, Government of India