

Sukuru Sai Vineet

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EDUCATION

- **Birla Institute of Technology and Science, Pilani** Goa, India
B.Eng Computer Science; CGPA: 8.4/10 *Aug 2018 - Aug 2022*

EXPERIENCE

- **Entrepreneur First** Bengaluru, Karnataka
Entrepreneur in Residence *July 2024 – Present*
 - Conducted 60+ user interviews to validate key problem statements in **MLOps** and **Code Search**.
 - Designed and developed **OmniGrep**, an AI-driven tool integrating codebases, technical documentation, and tickets to streamline developer queries, ranging from simple navigation (e.g., "Where is the auth service?") to complex decision-tracing questions (e.g., "Why was Gaia chosen over Firebase?").
 - Authored a detailed thesis documenting the research, user insights, and technical design for OmniGrep, supported by 67 user interviews and prototyping efforts. [View Thesis](#).
- **Independent Software Consulting** Bengaluru, Karnataka
Self-employed *Aug 2023 – June 2024*
 - Developed [GitaGPT](#), a RAG-based chatbot powered by GPT-3 and HyDE, enabling interactive exploration of the Bhagavad Gita. GitaGPT attracted significant media coverage and 50k+ users.
 - Built [Acharya](#), a personalized AI tutor capable of generating study plans and interactive Q&A for a range of topics from History to Physics.
 - Accelerated product development for pre-seed startups (Felvin AI, Mira Foundation) by leading AI engineering efforts, including **LLM fine-tuning** and orchestration.
 - Skills: Python, FastAPI, React.js, LLM Orchestration.
- **Google Inc** Bengaluru, Karnataka
Software Engineer *July 2022 – July 2023*
 - Migrated and maintained **6 high-traffic API endpoints** critical to Google's infrastructure, improving system response times by 30% and reducing technical debt.
 - Optimized cloud resource management infrastructure, enhancing efficiency for key Google Cloud offerings using **Kubernetes**, **Protobuf (gRPC)**, and **Java**.
- **Info Edge Ventures** Remote
Investment Analyst Intern *Aug 2021 – Feb 2022*
 - Conducted extensive research to identify high-potential investments in **Developer Tools** and **Blockchain**, presenting a comprehensive DevTools investment thesis for decision-making.
- **Walmart Global Tech India** Remote
Software Engineer Intern *May 2021 – July 2021*
 - Built data integrity pipelines ensuring synchronization between store databases and master databases.
 - Developed a reporting tool to identify and resolve **pricing anomalies** during markdown periods using **PySpark** and **Google Looker**.
- **Google Summer of Code, GNOME Foundation** Remote
Software Engineer *May 2020 – Aug 2020*
 - Achieved **6x performance improvement** for **Gitg**, GNOME's Git client, by designing a lazy-loaded tree view widget to optimize the file history plugin.
 - Refactored and tested existing code for better performance and maintainability using **Vala** and **GLib**.
- **Central Electronics Engineering Research Institute (CSIR-CEERI)** Remote
Research Intern *Summer 2020*

- Developed a reinforcement learning-based system for automated tuning and parameter scheduling of **PID controllers** using **Python** and **PyTorch**.
- Implemented and validated findings from the research paper "Reinforcement Learning in Continuous Action Spaces" (H. van Hasselt, M. Weiring, 2007) by designing novel reward functions and exploration strategies.

- **Stratzy**

Bengaluru, Karnataka

- *Founding Backend Engineer*

May 2019 – Jan 2020

- Built backend infrastructure to execute medium-frequency quantitative trading strategies using **Python**, **numpy**, and **pandas**.
- Developed high-speed backtesting software in **Cython** for analyzing quantitative trading strategies. Processed and cleaned market data from **Zerodha APIs**.

ACHIEVEMENTS AND AWARDS

- **Google Code-in 2015 (Grand Prize Winner):** Achieved **Top 28 globally** for contributions to *Apertium*. Invited to **Google HQ, Mountain View, California**.
- **Google Code-in 2013/2014 (Finalist):** Recognized as a Finalist for impactful open-source contributions to *Sugar Labs* and *Apertium*.
- **Google Code2Learn 2014 (Winner):** Selected among **Top 3 winners** in the 9th-10th grade category. Developed a physics simulator application. [View Code](#) — [Video Demo](#)

PROJECTS

- **Acharya: Personalised AI Tutor (2023)** Developed a one-on-one AI tutoring chatbot that generates customized study plans and Q&A sessions for subjects across school curricula.
- **Gita GPT (2023)** Built a Retrieval-Augmented-Generation (RAG) chatbot enabling interactive conversations with the Bhagavad Gita. Gained significant media coverage and praise for enhancing scripture accessibility using GPT-3 and HyDE methods.
- **Pacman AI with Reinforcement Learning (2021)** Implemented a Deep Q-Network (DQN) achieving superhuman performance in Pacman through pixel-based training and real-time decision-making.
- **Monte Carlo Algorithm Analyzer (2020)** Designed an automated tool to analyze algorithm performance using Monte Carlo methods. Applied it to evaluate a COVID-19 binary search testing strategy; detailed findings published [here](#).

SCHOLASTIC ACHIEVEMENTS

- **Published** final-year thesis, "[A Data-Centric Approach for Analyzing Large-Scale Deep Learning Applications](#)", at IIT Kharagpur's *International Conference for Distributed Computing and Networking (ICDCN)*, 2023.
- Appointed **Teaching Assistant** for *Data Structures and Algorithms*, responsible for creating teaching materials and conducting tutorials for a class of 400+ students across disciplines.
- Awarded **Merit Scholarship** (Top 3%) in Semester 1-1 onwards and **Merit-cum-Need Scholarship** for Semester 3-1 onward.
- Secured **All India Rank 3083** among 2+ lakh candidates in *JEE (Advanced)*, 2018.
- Secured **All India Rank 4308** among 1+ million candidates in *JEE (Main)*, 2018.
- **Qualified Zonal Computing Olympiad** (2017) and appeared for the *Indian National Olympiad in Informatics*, 2017.