







SATTI VAMSI KRISHNA REDDY

Résumé - August 2025

CONTACT

Email: vamsi3@outlook.com 
Gmail: vamsi2519915@gmail.com 

Website: vamsi3.github.io 
Residence: Bengaluru, India 

LinkedIn: [vamsi3](#) 
GitHub: [vamsi3](#) 


WORK EXPERIENCE



Google DeepMind, India | Onsite
Senior Software Engineer (L5) – Machine Learning | Gemini Global Team

Dec 2024 – Present

Languages – C++, Python | Tools – Bazel, gRPC, JJ, other Google internal tools

- Driving development of key Gemini features, from agentic systems and i18n to student tools.
- Shipped high-quality Workspace integrations for i18n users by upgrading to new internal frameworks.
- Owned the backend internationalization for Scheduled Actions , enabling its successful global launch.
- Spearheading a new student-focused agentic feature, owning the full lifecycle with FE, UX, PM, etc.



Samsung Electronics (HQ), South Korea | Onsite
Software Engineer – Backend & Infrastructure | AI Team, Mobile Division

Oct 2020 – Nov 2024

Languages – Java, Kotlin | Tools – Spring Boot, Gradle, Docker, K8s, LLM

- Engineered backend services at the intersection of Bixby (AI) and SmartThings (IoT) clouds.
- Led the end-to-end integration of LLMs into Bixby, enabling complex, natural language device control.
- Architected a new device search & execution microservice during a cloud migration, introducing fuzzy and advanced search capabilities to improve device discovery.
- Developed a recommendation engine using graph databases to deliver personalized user experiences.
- Received top performance rating ('Exceeds Most'), awarded to <10% of employees (2021, 2023).
- Initiated and led official study groups to mentor new employees on Software Engineering & Data Science.
- Achieved advanced certifications (NLP, CV, Data Science) with US \$10,000 in certification bonuses.

EDUCATION





Indian Institute of Technology (IIT) Bombay, India | Onsite
B.Tech. in Computer Science and Engineering | CGPA: 9.13 / 10









Aug 2016 – Nov 2019
(Early Graduate)

Competitive Programming – C++ | Machine / Deep Learning – Python, NumPy, PyTorch

- India's most reputed and competitive university in STEM. Ranked 118 in QS World University Rankings
- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain
- Student Instructor in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018
- 10/10 in programming component of all computer science courses I had taken during my entire study
- 10/10 in Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, etc...






SELECT PROJECTS

Digital Garden  My writings on technology, software engineering and programming 2020-now
Screen Translator (88★)  Android App built with Kotlin, Jetpack tools and Compose UI 2022-2024



Reinforcement Learning  - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP 2019
AI & Machine Learning  - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc. 2019
pix2pix: Image-to-Image Translation  - paper by Phillip Isola *et al.* implemented using PyTorch 2019
Compilers  - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019
Database Systems  - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018
Computer Networks  - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc. 2018
Computer Graphics  - A tiny music-box animation rendered and created wholly using OpenGL 2018
Eclipse OJ  - First experience on development of full-stack Django web application and UI 2017

COMPETITIVE PROGRAMMING




ICPC  Rank 27 - 2020 Amritapuri (Online) | Rank 11 - 2020 Kharagpur (Online)
Rank 70 - 2019 Amritapuri | Rank 36 - 2018 Amritapuri | Rank 18 - 2018 Chennai
Google Codejam  2022 Round 1C - Rank 603 **Google Foobar** Finished all 5 levels in 2018
Google Kickstart  2022 Round C - Rank 62 | 2022 Round A - Rank 155 | 2021 Round H - Rank 57
2021 Round G - Rank 83 | 2020 Round F - Rank 386 | 2019 Round G - Rank 159
2019 Round F - Rank 79 | 2019 Round E - Rank 75 | 2018 Round A - Rank 151
Meta HackerCup  2023 Round 1 - Rank 467 | 2022 Round 2 - Rank 1232 | 2021 Round 2 - Rank 1690
2019 Round 2 - Rank 836 | 2018 Round 2 - Rank 967
Project Euler  Rank 2430 (top 0.18%), by solving 232 challenging mathematics + algorithm problems
Codeforces  Rating 2053 max. (Candidate Master) — Best ranks include 16, 77, 81 in Div 2 contests
Codechef  Rank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55
SnackDown 2021 Round 1A - Rank 63 | DS & Algorithms (Advanced) Certified 2020

ACHIEVEMENTS

IIT-JEE Advanced  Rank 20 across all of India among 1.2 million examinees for admission into IITs 2016
NEST Rank 2 across all of India, the test for science university admissions (IISERs) 2016
AP-EAMCET  Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India 2016
TS-EAMCET Rank 10, the test for university admissions by Govt. of Telangana, India 2016
KVPY Fellowship Rank 26 by DST, Ministry of Science and Technology, Govt. of India 2014
NTSE Scholarship Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012

LANGUAGES

Trilingual – తెలుగు, English, हिन्दी | Beginner – 한국어 TOPIK Level 2 (¹⁹¹/₂₀₀) 

CITIZENSHIP India