





SATTI VAMSI KRISHNA REDDY

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CONTACT	Email: vamsi3@outlook.com ↗ Gmail: vamsi2519915@gmail.com ↗	Website: vamsi3.github.io ↗ Residence: Bengaluru, India ↗	LinkedIn: vamsi3 ↗ GitHub: vamsi3 ↗
WORK EXPERIENCE	<div> Google DeepMind, India Onsite <i>Senior Software Engineer (L5) - Machine Learning Gemini Global Team</i> Languages - C++, Python Tools - Bazel, gRPC, JJ, other Google internal tools</div> <div> Samsung Electronics (HQ), South Korea Onsite <i>Software Engineer - Backend & Infrastructure AI Team, Mobile Division</i> Languages - Java, Kotlin Tools - Spring Boot, Gradle, Docker, K8s, LLM</div> <ul style="list-style-type: none">- 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.- 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.	Dec 2024 — Present Oct 2020 — Nov 2024	
EDUCATION	<div> Indian Institute of Technology (IIT) Bombay, India Onsite <i>B.Tech. in Computer Science and Engineering CGPA: 9.13 / 10</i> Competitive Programming — C++ Machine / Deep Learning — Python, NumPy, PyTorch</div> <ul style="list-style-type: none">- India's most reputed and competitive university in STEM. <u>Ranked 118 in QS World University Rankings</u>- 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...	Aug 2016 — Nov 2019 (Early Graduate)	
SELECT PROJECTS	Digital Garden ↗ My writings on technology, software engineering and programming Screen Translator (88★) ↗ Android App built with Kotlin, Jetpack tools and Compose UI	2020-now 2022-2024	
	Reinforcement Learning ↗ - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP AI & Machine Learning ↗ - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc. pix2pix: Image-to-Image Translation ↗ - paper by Phillip Isola et al. implemented using PyTorch Compilers ↗ - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison Database Systems ↗ - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) Computer Networks ↗ - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc. Computer Graphics ↗ - A tiny music-box animation rendered and created wholly using OpenGL Eclipse OJ ↗ - First experience on development of full-stack Django web application and UI	2019 2019 2019 2019 2018 2018 2018 2017	
COMPETITIVE PROGRAMMING	<div> ICPC ↗ Google Codejam ↗ Google Kickstart ↗ Meta HackerCup ↗ Project Euler ↗ Codeforces ↗ Codechef ↗</div> <div>Rank 27 - 2020 Amritapuri (Online) Rank 11 - 2020 Kharagpur (Online) Rank 70 - 2019 Amritapuri Rank 36 - 2018 Amritapuri Rank 18 - 2018 Chennai 2022 Round 1C - Rank 603 Google Foobar Finished all 5 levels in 2018 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 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 Rank 2430 (top 0.18%), by solving 232 challenging mathematics + algorithm problems Rating 2053 max. (Candidate Master) — Best ranks include 16, 77, 81 in Div 2 contests 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</div>		
ACHIEVEMENTS	IIT-JEE Advanced ↗ Rank 20 across all of India among 1.2 million examinees for admission into IITs NEST Rank 2 across all of India, the test for science university admissions (IISERs) AP-EAMCET ↗ Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India TS-EAMCET Rank 10, the test for university admissions by Govt. of Telangana, India KVPY Fellowship Rank 26 by DST, Ministry of Science and Technology, Govt. of India NTSE Scholarship Rank 158 with monetary benefit by Ministry of Education, Govt. of India	2016 2016 2016 2016 2014 2012	
LANGUAGES	Trilingual — తెలుగు, English, हिन्दी Beginner — 한국어 TOPIK Level 2 (19½/200) ↗	CITIZENSHIP India	