

# SATTI VAMSI KRISHNA REDDY

Résumé - January 2026

<b>CONTACT</b>	Email: vamsi3@outlook.com ↗ Gmail: vamsi2519915@gmail.com ↗	Website: vamsi3.github.io ↗ Residence: Bengaluru, India ↗	LinkedIn: vamsi3 ↗ GitHub: vamsi3 ↗
<b>WORK EXPERIENCE</b>	 <b>Google DeepMind, India   Onsite</b> <i>Senior Software Engineer (L5) - Machine Learning   Gemini Global Team</i> Languages – C++, Python   Tools – Bazel, gRPC, JJ, other Google internal tools <ul style="list-style-type: none"> <li>- Driving development of key Gemini features, from agentic systems and i18n to student tools.</li> <li>- Shipped high-quality Workspace integrations for i18n users by upgrading to new internal frameworks.</li> <li>- Owned the backend internationalization for Scheduled Actions ↗, enabling its successful global launch.</li> <li>- Spearheading a new student-focused agentic feature, owning the full lifecycle with FE, UX, PM, etc.</li> </ul>	Dec 2024 – Present	
	 <b>Samsung Electronics (HQ), South Korea   Onsite</b> <i>Software Engineer - Backend &amp; Infrastructure   AI Team, Mobile Division</i> Languages – Java, Kotlin   Tools – Spring Boot, Gradle, Docker, K8s, LLM <ul style="list-style-type: none"> <li>- Engineered backend services at the intersection of Bixby (AI) and SmartThings (IoT) clouds.</li> <li>- Led the end-to-end integration of LLMs into Bixby, enabling complex, natural language device control.</li> <li>- Architected a new device search &amp; execution microservice during a cloud migration, introducing fuzzy and advanced search capabilities to improve device discovery.</li> <li>- Developed a recommendation engine using graph databases to deliver personalized user experiences.</li> <li>- Received top performance rating ('Exceeds Most'), awarded to &lt;10% of employees (2021, 2023).</li> <li>- Initiated and led official study groups to mentor new employees on Software Engineering &amp; Data Science.</li> <li>- Achieved advanced certifications (NLP, CV, Data Science) with US \$10,000 in certification bonuses.</li> </ul>	Oct 2020 – Nov 2024	
<b>EDUCATION</b>	 <b>Indian Institute of Technology (IIT) Bombay, India   Onsite</b> <i>B.Tech. in Computer Science and Engineering   CGPA: 9.13 / 10</i> Competitive Programming – C++   Machine / Deep Learning – Python, NumPy, PyTorch <ul style="list-style-type: none"> <li>- India's most reputed and competitive university in STEM. Ranked 118 in QS World University Rankings</li> <li>- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain</li> <li>- Student Instructor in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018</li> <li>- 10/10 in programming component of all computer science courses I had taken during my entire study</li> <li>- 10/10 in Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, etc...</li> </ul>	Aug 2016 – Nov 2019 (Early Graduate)	
<b>SELECT PROJECTS</b>	<b>Digital Garden ↗</b> My writings on technology, software engineering and programming <b>Screen Translator (88★) ↗</b> Android App built with Kotlin, Jetpack tools and Compose UI	2020-now 2022-2024	
	<b>Reinforcement Learning ↗</b> - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP <b>AI &amp; Machine Learning ↗</b> - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc. <b>pix2pix: Image-to-Image Translation ↗</b> - paper by Phillip Isola et al. implemented using PyTorch <b>Compilers ↗</b> - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison <b>Database Systems ↗</b> - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) <b>Computer Networks ↗</b> - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc. <b>Computer Graphics ↗</b> - A tiny music-box animation rendered and created wholly using OpenGL <b>Eclipse OJ ↗</b> - First experience on development of full-stack Django web application and UI	2019 2019 2019 2019 2018 2018 2018 2017	
<b>COMPETITIVE PROGRAMMING</b>	 <b>ICPC ↗</b> Rank 27 - 2020 Amritapuri (Online)   Rank 11 - 2020 Kharagpur (Online) Rank 70 - 2019 Amritapuri   Rank 36 - 2018 Amritapuri   Rank 18 - 2018 Chennai <b>Google Codejam ↗</b> 2022 Round 1C - Rank 603   <b>Google Foobar</b> Finished all 5 levels in 2018 <b>Google Kickstart ↗</b> 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 <b>Meta HackerCup ↗</b> 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 <b>Project Euler ↗</b> Rank 2430 (top 0.18%), by solving 232 challenging mathematics + algorithm problems <b>Codeforces ↗</b> Rating 2053 max. (Candidate Master) – Best ranks include 16, 77, 81 in Div 2 contests <b>Codechef ↗</b> 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	2019 2019 2019 2019 2018 2018 2018 2017	
<b>ACHIEVEMENTS</b>	<b>IIT-JEE Advanced ↗</b> Rank 20 across all of India among 1.2 million examinees for admission into IITs <b>NEST</b> Rank 2 across all of India, the test for science university admissions (IISERs) <b>AP-EAMCET ↗</b> Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India <b>TS-EAMCET</b> Rank 10, the test for university admissions by Govt. of Telangana, India <b>KVPY Fellowship</b> Rank 26 by DST, Ministry of Science and Technology, Govt. of India <b>NTSE Scholarship</b> Rank 158 with monetary benefit by Ministry of Education, Govt. of India	2016 2016 2016 2016 2014 2012	
<b>LANGUAGES</b>	Trilingual — தெலுங்கு, English, हिन्दी   Beginner — 한국어 TOPIK Level 2 (191/200) ↗	CITIZENSHIP	India