





# SATTI VAMSI KRISHNA REDDY

Résumé - June 2025

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WORK EXPERIENCE	<div> <b>Google DeepMind, India</b>   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> <b>Samsung Electronics (HQ), South Korea</b>   Onsite <i>Software Engineer - Backend &amp; Infrastructure   AI Team, Mobile Division</i> Languages - Java, Kotlin   Tools - Spring Boot, Gradle, Docker, K8s, LLM</div> <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><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>	Dec 2024 — Present Oct 2020 — Nov 2024	
EDUCATION	<div> <b>Indian Institute of Technology (IIT) Bombay, India</b>   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"><li>- India's most reputed and competitive university in STEM. <u>Ranked 118 in QS World University Rankings</u></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)	
SELECT PROJECTS	<b>Digital Garden</b> ↗ My writings on technology, software engineering and programming 2020-now <b>Screen Translator (88★)</b> ↗ Android App built with Kotlin, Jetpack tools and Compose UI 2022-2024 <b>Reinforcement Learning</b> ↗ - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP 2019 <b>AI &amp; Machine Learning</b> ↗ - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc. 2019 <b>pix2pix: Image-to-Image Translation</b> ↗ - paper by Phillip Isola et al. implemented using PyTorch 2019 <b>Compilers</b> ↗ - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019 <b>Database Systems</b> ↗ - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018 <b>Computer Networks</b> ↗ - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc. 2018 <b>Computer Graphics</b> ↗ - A tiny music-box animation rendered and created wholly using OpenGL 2018 <b>Eclipse OJ</b> ↗ - First experience on development of full-stack Django web application and UI 2017		
COMPETITIVE PROGRAMMING	<div> <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</div> <div><b>Google Codejam</b> ↗ 2022 Round 1C - Rank 603 <b>Google Foobar</b> Finished all 5 levels in 2018</div> <div><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</div> <div><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</div> <div><b>Project Euler</b> ↗ Rank 2430 (top 0.18%), by solving 232 challenging mathematics + algorithm problems</div> <div><b>Codeforces</b> ↗ Rating 2053 max. (Candidate Master) — Best ranks include 16, 77, 81 in Div 2 contests</div> <div><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 &amp; Algorithms (Advanced) Certified 2020</div>		
ACHIEVEMENTS	<b>IIT-JEE Advanced</b> ↗ Rank 20 across all of India among 1.2 million examinees for admission into IITs 2016 <b>NEST</b> Rank 2 across all of India, the test for science university admissions (IISERs) 2016 <b>AP-EAMCET</b> ↗ Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India 2016 <b>TS-EAMCET</b> Rank 10, the test for university admissions by Govt. of Telangana, India 2016 <b>KVPY Fellowship</b> Rank 26 by DST, Ministry of Science and Technology, Govt. of India 2014 <b>NTSE Scholarship</b> Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012		
LANGUAGES	Trilingual — తెలుగు, English, हिन्दी   Beginner — 한국어 TOPIK Level 2 (19½/200) ↗	CITIZENSHIP India	