




# SATTI VAMSI KRISHNA REDDY

Résumé - July 2024

CONTACT	Email: <a href="mailto:vamsi3@outlook.com">vamsi3@outlook.com</a>   Gmail: <a href="mailto:vamsi2519915@gmail.com">vamsi2519915@gmail.com</a>   Website: <a href="https://vamsi3.github.io">vamsi3.github.io</a> Current Residence: Suwon-si, Gyeonggi-do, South Korea   LinkedIn: <a href="#">vamsi3</a>   GitHub: <a href="#">vamsi3</a>		
WORK EXPERIENCE	<div> <b>Samsung Electronics (HQ), South Korea (Onsite)</b> Software Engineer   Artificial Intelligence (AI) Team, Mobile Division Languages — Java, Kotlin   Tools — Spring Boot, Gradle, Docker, Kubernetes, LLMs</div> <div><ul style="list-style-type: none"><li>- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices <i>via</i> voice.</li><li>- Received 'Exceeds Most' - 100% grade in 2021 and 2023 review limited to less than 10% of employees.</li><li>- Currently working on LLM integration into Bixby to control smart IoT devices in SmartThings with LLM.</li><li>- Leading the work on search and execution of the right devices from user's command through SmartThings.</li><li>- Collaborated with overseas dev teams efficiently through business travels for design decisions and plans.</li><li>- Experience with handling code involving new features, unit tests, bug fixes, deployments, etc., with broad experience in complete lifecycle of backend services from ideation to deployment.</li><li>- Cleared both NLP and Computer Vision (Advanced) within Samsung's internal AI certification program.</li><li>- Achieved S/W Professional and Data Science II internal certifications with monetary benefit of US \$8600</li><li>- Organized official study groups to mentor new employees on Software Engineering and Data Science.</li><li>- Was a developer for the Bixby Home Platform - primarily involved with the backend services.</li><li>- Refactored new device-search microservice from existing services on Bixby Home Platform during internal cloud migration. Developed new features supporting fuzzy &amp; advanced search after migration.</li><li>- Worked on new recommendation features together with the product team. Developed new microservices using graph databases to support the new personalized recommendations for users in Bixby.</li></ul></div>	Oct 2020 — Present	
EDUCATION	<div> <b>Indian Institute of Technology (IIT) Bombay, India (Onsite)</b> B.Tech. in Computer Science and Engineering   CGPA: 9.13 / 10 Competitive Programming — C++   Machine / Deep Learning — Python, NumPy, PyTorch</div> <div><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>- Teaching Assistant (TA) 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></div>	Aug 2016 — Nov 2019 (Early Graduate)	
SELECT PROJECTS	<div><div>Digital Garden   My writings on technology, software engineering, guides and programming   2024 ~</div><div>Screen Translator (50★)   Android App built with Kotlin, Jetpack tools and Compose UI   2022-2023</div><div>Project ZEN   Collection of my algorithm implementations in C++ for coding competitions   2020-2023</div></div> <div><div>Reinforcement Learning   UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP   2019</div><div>AI &amp; Machine Learning   ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc.   2019</div><div>pix2pix: Image-to-Image Translation   paper by Phillip Isola <i>et al.</i> implemented using PyTorch   2019</div><div>Compilers   Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison   2019</div><div>Database Systems   SQL queries, schema design for mobile/web apps, use of connectors (JDBC)   2018</div><div>Computer Networks   Implemented Spanning Tree Protocol, SimpleFTP using sockets etc.   2018</div><div>Computer Graphics   A tiny music-box animation rendered and created wholly using OpenGL   2018</div><div>Eclipse OJ   First experience on development of full-stack Django web application and UI   2017</div></div>		
COMPETITIVE PROGRAMMING	<div><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>Google Codejam   2022 Round 1C - Rank 603   Google Foobar   Finished all 5 levels in 2018</div><div>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</div><div>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</div><div>Project Euler   Rank 2258 (top 0.21%), by solving 219 challenging mathematics + algorithm problems</div><div>Codeforces   Rating 2053 max. (Candidate Master) — Best ranks include 16, 77, 81 in Div 2 contests</div><div>Codechef   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></div>		
ACHIEVEMENTS	<div><div>IIT-JEE Advanced   Rank 20 across all of India among 1.2 million examinees for admission into IITs   2016</div><div>NEST   Rank 2 across all of India, the test for science university admissions (IISERs)   2016</div><div>AP-EAMCET   Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India   2016</div><div>TS-EAMCET   Rank 10, the test for university admissions by Govt. of Telangana, India   2016</div><div>KVPY Fellowship   Rank 26 by DST, Ministry of Science and Technology, Govt. of India   2014</div><div>NTSE Scholarship   Rank 158 with monetary benefit by Ministry of Education, Govt. of India   2012</div></div>		
LANGUAGES	Trilingual — తెలుగు, English, हिन्दी   Beginner — 한국어 TOPIK Level 2 ( <sup>191</sup> / <sub>200</sub> )   CITIZENSHIP India		