




# VAMSI KRISHNA REDDY SATTI

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CONTACT	Email: vamsi3@outlook.com   Gmail: vamsi2519915@gmail.com   Website: vamsi3.github.io Current Residence: Suwon-si, Gyeonggi-do, South Korea   LinkedIn: vamsi3   GitHub: vamsi3								
WORK EXPERIENCE	<div> <b>Samsung Electronics (HQ), South Korea (Onsite)</b> Software Engineer   Artificial Intelligence (AI) Team, Mobile Division Oct 2020 — Present</div> <div>Language — Java, Kotlin   Tools — Spring, Mockito, CI/CD, 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>- Experience with handling large code involving new features, unit tests, bug fixes, deployments, <i>etc.</i>, with broad experience in complete lifecycle of projects with backend services from ideation to deployment.</li><li>- Worked on a microservice to search and execute devices through SmartThings from user's IoT utterance.</li><li>- Developer for the Bixby Home Platform - primarily involved with the backend code and infrastructure.</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>- Working on new recommendation features together with the product team. Developing new microservices with graph databases to support the new personalized recommendations for users in Bixby.</li><li>- Developer for LLM integration into Bixby, part of a core team working on IoT device control with LLM.</li><li>- Received EX (Excellent - 100%) grade in 2022,24 annual reviews, limited to less than 10% of employees.</li><li>- Cleared both NLP and Computer Vision (Advanced) within Samsung's internal AI certification program.</li><li>- Achieved <u>S/W Professional Level</u> and <u>Data Science Level 2</u> internal certifications with monetary benefit.</li><li>- Organized official study groups to mentor new employees on Software Engineering and Data Science.</li></ul></div> <div><table><tr><td><b>Samsung Electronics (HQ), South Korea (Onsite)</b></td><td>Software Engineer Intern</td><td>May 2019 — Jul 2019</td></tr><tr><td><b>Ubisoft Entertainment, India (Onsite)</b></td><td>Game Developer Intern</td><td>May 2018 — Jul 2018</td></tr></table></div>	<b>Samsung Electronics (HQ), South Korea (Onsite)</b>	Software Engineer Intern	May 2019 — Jul 2019	<b>Ubisoft Entertainment, India (Onsite)</b>	Game Developer Intern	May 2018 — Jul 2018		
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EDUCATION	<div> <b>Indian Institute of Technology (IIT) Bombay, India (Onsite)</b> B.Tech. in Computer Science and Engineering   CGPA: 9.13 / 10 Aug 2016 — Nov 2019 (<u>Early Graduate</u>)</div> <div>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 for STEM, and especially Computer Science.</li><li>- Teaching Assistant (TA) in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018.</li><li>- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain</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, Computer Logic</li></ul></div>								
SELECT PROJECTS	<div><b>Screen Translator (36★)</b> - Android App built with Kotlin, modern Jetpack tools and Compose UI ~ <i>active</i></div> <div><b>Algorithm Library</b> - Collection of my algorithm implementations in Kotlin for coding competitions ~ <i>active</i></div> <div><b>Project ZEN</b> - My website of knowledge across software development (auto-deployed with CI/CD) ~ <i>active</i></div> <div><b>Reinforcement Learning</b> - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP 2019</div> <div><b>AI &amp; Machine Learning</b> - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search <i>etc.</i> 2019</div> <div><b>pix2pix: Image-to-Image Translation</b> - paper by Phillip Isola <i>et al.</i> implemented using PyTorch 2019</div> <div><b>Compilers</b> - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019</div> <div><b>Database Systems</b> - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018</div> <div><b>Computer Networks</b> - Implemented Spanning Tree Protocol, SimpleFTP using sockets <i>etc.</i> 2018</div> <div><b>Computer Graphics</b> - A tiny music-box animation rendered and created wholly using OpenGL 2018</div> <div><b>Eclipse OJ</b> - First experience on development of full-stack Django web application and UI 2017</div>								
COMPETITIVE PROGRAMMING	<div> <b>ICPC</b></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 2258 (top 0.21%), by solving 219 challenging mathematics + algorithm problems</div> <div><b>Codeforces</b> - Rating 2053 <i>max.</i> (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	<div><b>IIT-JEE Advanced</b> - Rank 20 across all of India among 1.2 million examinees for admission into IITs 2016</div> <div><b>NEST</b> - Rank 2 across all of India, the test for science university admissions (IISERs) 2016</div> <div><b>AP-EAMCET</b> - Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India 2016</div> <div><b>TS-EAMCET</b> - Rank 10, the test for university admissions by Govt. of Telangana, India 2016</div> <div><b>KVPY Fellowship</b> - Rank 26 by DST, Ministry of Science and Technology, Govt. of India 2014</div> <div><b>NTSE Scholarship</b> - Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012</div>								
LANGUAGES	Trilingual — తెలుగు, English, हिन्दी   Beginner — 한국어 TOPIK Level 2 (191/200)   CITIZENSHIP India								