




VAMSI KRISHNA REDDY SATTI

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WORK EXPERIENCE	<div> Samsung Electronics (HQ), South Korea (Onsite) Software Engineer Artificial Intelligence (AI) Team, Mobile Division Language — Java, Kotlin Tools — Spring, Mockito, CI/CD, Docker, Kubernetes, LLMs</div> <div><ul style="list-style-type: none">- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices <i>via</i> voice.- 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.- Worked on a microservice to search and execute devices through SmartThings from user's IoT utterance.- Developer for the Bixby Home Platform - primarily involved with the backend code and infrastructure.- Refactored new device-search microservice from existing services on Bixby Home Platform during internal cloud migration. Developed new features supporting fuzzy & advanced search after migration.- 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.- Developer for LLM integration into Bixby, part of a core team working on IoT device control with LLM.- Received EX (Excellent - 100%) grade in 2022,24 annual reviews, limited to less than 10% of employees.- Cleared both NLP and Computer Vision (Advanced) within Samsung's internal AI certification program.- Achieved <u>S/W Professional Level</u> and <u>Data Science Level 2</u> internal certifications with monetary benefit.- Organized official study groups to mentor new employees on Software Engineering and Data Science.</div> <div><div>Samsung Electronics (HQ), South Korea (Onsite) Ubisoft Entertainment, India (Onsite)</div><div><div>Software Engineer Intern Game Developer Intern</div><div>May 2019 — Jul 2019 May 2018 — Jul 2018</div></div></div>	Oct 2020 — Present	
EDUCATION	<div> Indian Institute of Technology (IIT) Bombay, India (Onsite) 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">- India's most reputed and competitive university for STEM, and especially Computer Science.- Teaching Assistant (TA) in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018.- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain- 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, Computer Logic</div>	Aug 2016 — Nov 2019 (Early Graduate)	
SELECT PROJECTS	<div>Screen Translator (36★) - Android App built with Kotlin, modern Jetpack tools and Compose UI ~ <i>active</i> Algorithm Library - Collection of my algorithm implementations in Kotlin for coding competitions ~ <i>active</i> Project ZEN - My website of knowledge across software development (auto-deployed with CI/CD) ~ <i>active</i></div> <div>Reinforcement Learning - UCB, KL-UCB, Thompson Sampling, Howard's Policy Iteration for MDP 2019 AI & Machine Learning - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search <i>etc.</i> 2019 pix2pix: Image-to-Image Translation - paper by Phillip Isola <i>et al.</i> implemented using PyTorch 2019 Compilers - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019 Database Systems - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018 Computer Networks - Implemented Spanning Tree Protocol, SimpleFTP using sockets <i>etc.</i> 2018 Computer Graphics - A tiny music-box animation rendered and created wholly using OpenGL 2018 Eclipse OJ - First experience on development of full-stack Django web application and UI 2017</div>		
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 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 2258 (top 0.21%), by solving 219 challenging mathematics + algorithm problems Rating 2053 <i>max.</i> (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>	<div>Google Foobar Finished all 5 levels in 2018</div>
ACHIEVEMENTS	<div>IIT-JEE Advanced NEST AP-EAMCET TS-EAMCET KVPY Fellowship NTSE Scholarship</div>	<div>Rank 20 across all of India among 1.2 million examinees for admission into IITs Rank 2 across all of India, the test for science university admissions (IISERs) Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India Rank 10, the test for university admissions by Govt. of Telangana, India Rank 26 by DST, Ministry of Science and Technology, Govt. of India Rank 158 with monetary benefit by Ministry of Education, Govt. of India</div>	<div>2016 2016 2016 2016 2014 2012</div>
LANGUAGES	Trilingual — తెలుగు, English, हिन्दी Beginner — 한국어 TOPIK Level 2 (191/200) CITIZENSHIP India		