




# VAMSI KRISHNA REDDY SATTI

Résumé / CV - March 2022

CONTACT	Email: vamsi2519915@gmail.com   Website: vamsi3.github.io   LinkedIn: vamsi3   GitHub: vamsi3		
WORK EXPERIENCES	 <b>Samsung Electronics (HQ), South Korea</b> <i>Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team</i>	Oct 2020 – Present (Software Engineer)	
	Language – Java   Framework – Spring Boot, Mockito   Cloud – AWS, Kubernetes		
	<ul style="list-style-type: none"><li>- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices via voice.</li><li>- Involves development of microservice to search and execute target devices from structured voice query.</li><li>- Experience with handling large code (4+ years old) including new features, unit tests, bug fixes, making deployments using pipelines, monitoring health and a primary programmer for the current major refactor.</li><li>- Received EX (Excellent) grade (100%) in 2021 annual work review, limited to less than 10% of employees.</li><li>- Achieved <u>S/W Professional Level</u> internal coding certification and received additional monetary benefit.</li><li>- Passed the AI Academy's <u>Computer Vision (Advanced)</u>, within Samsung's internal AI certification program</li></ul>		
	<b>Samsung Electronics (HQ), South Korea</b>	<i>Software Engineer Intern</i>	May 2019 – Jul 2019
	<b>Ubisoft Entertainment, India</b>	<i>Game Developer Intern</i>	May 2018 – Jul 2018
EDUCATION	 <b>Indian Institute of Technology (IIT) Bombay</b> <i>B.Tech. in Computer Science and Engineering</i>   CGPA: 9.13/10	Aug 2016 – Nov 2019 (Early Graduate)	
	Competitive Programming – C++   Machine / Deep Learning – Python, NumPy, PyTorch		
	<ul style="list-style-type: none"><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>		
	<b>Andhra Pradesh Board of Intermediate Education</b>	Percentage: 98.2%	Jun 2014 - Mar 2016
	<b>Central Board of Secondary Education</b>	CGPA: 10/10	Jun 2012 - Mar 2014
GITHUB REPOSITORIES	<b>Project ZEN</b>   My website of self-written codes on Algorithms since 2020 (deployed using CI) ~ 2022		
	<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>Railway Signal Controller</b>   First experience with hardware languages (VHDL) over an FPGA board 2018		
	<b>Image Quilting: Texture Synthesis</b>   Implemented the paper by Alexei A. Efros et al. using MATLAB 2018		
	<b>Image Processing &amp; Editing Tool</b>   Spatial image processing like blur, histogram equalization etc. 2017		
	<b>Eclipse OJ</b>   First experience on development of full fledged web application and UI (Django, Git) 2017		
	<b>Othello Game</b>   First experience on rapid development using docs of a new lisp-like language 2017		
CODING CONTESTS	 <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>	2021 Round 1A - Rank 884	<b>Google Foobar</b> Finished all 5 levels in 2018
	<b>Google Kickstart</b>	2021 Round H - Rank 57   2021 Round G - Rank 83   2019 Round G - Rank 159 2019 Round F - Rank 79   2019 Round E - Rank 75   2018 Round A - Rank 151	
	<b>FB Hacker Cup</b>	2021 Round 1 - Rank 700   2019 Round 2 - Rank 836   2018 Round 2 - Rank 967	
	<b>Project Euler</b>	Rank 2275 (top 0.22%), by solving 210 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	
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, Government of India	2014
	<b>NTSE Scholarship</b>	Rank 158, by NCERT, Ministry of Education, Government of India	2012
LANGUAGES	Trilingual – తెలుగు, English, हिन्दी   Beginner – 한국어 TOPIK Level 2 (19½/200)		
	CITIZENSHIP	India	