




VAMSI KRISHNA REDDY SATTI

Résumé / CV - March 2022

CONTACT	Email: vamsi2519915@gmail.com Website: vamsi3.github.io LinkedIn: vamsi3 GitHub: vamsi3		
WORK EXPERIENCES	 Samsung Electronics (HQ), South Korea <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">- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices <i>via</i> voice.- Involves development of microservice to search and execute target devices from NLP-tagged voice query.- 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.- Received EX (Excellent) grade (100%) in 2021 annual work review, limited to less than 10% of employees.- Passed the AI Academy's Computer Vision (Advanced), within Samsung's internal AI certification program- Achieved <u>S/W Professional Level</u> internal coding certification and received additional monetary benefit.		
	Samsung Electronics (HQ), South Korea	<i>Software Engineer Intern</i>	May 2019 – Jul 2019
	Ubisoft Entertainment, India	<i>Game Developer Intern</i>	May 2018 – Jul 2018
EDUCATION	 Indian Institute of Technology (IIT) Bombay <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">- 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		
	Andhra Pradesh Board of Intermediate Education	Percentage: 98.2%	Jun 2014 - Mar 2016
	Central Board of Secondary Education	CGPA: 10/10	Jun 2012 - Mar 2014
GITHUB REPOSITORIES	Project ZEN My website of self-written codes on Algorithms since 2020 (deployed using CI) ~ 2022		
	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 etc. 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 etc. 2018		
	Computer Graphics A tiny music-box animation rendered and created wholly using OpenGL 2018		
	Railway Signal Controller First experience with hardware languages (VHDL) over an FPGA board 2018		
	Image Quilting: Texture Synthesis Implemented the paper by Alexei A. Efros <i>et al.</i> using MATLAB 2018		
	Image Processing & Editing Tool Spatial image processing like blur, histogram equalization etc. 2017		
	Eclipse OJ First experience on development of full fledged web application and UI (Django, Git) 2017		
	Othello Game First experience on rapid development using docs of a new <i>lisp-like</i> language 2017		
CODING CONTESTS	 ICPC	Rank 27 - 2020 Amritapuri (Online) Rank 11 - 2020 Kharagpur (Online) Rank 70 - 2019 Amritapuri Rank 36 - 2018 Amritapuri Rank 18 - 2018 Chennai	
	Google Codejam	2021 Round 1A - Rank 884	Google Foobar Finished all 5 levels in 2018
	Google Kickstart	2022 Round A - Rank 156 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	
	FB Hacker Cup	2021 Round 1 - Rank 700 2019 Round 2 - Rank 836 2018 Round 2 - Rank 967	
	Project Euler	Rank 2275 (top 0.22%), by solving 210 challenging mathematics + algorithm problems	
	Codeforces	Rating 2053 max. (Candidate Master) – Best ranks include 16, 77, 81 in Div 2 contests	
	Codechef	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	IIT-JEE Advanced	Rank 20 across all of India among 1.2 million examinees for admission into IITs	2016
	NEST	Rank 2 across all of India, the test for science university admissions (IISERs)	2016
	AP-EAMCET	Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India	2016
	TS-EAMCET	Rank 10, the test for university admissions by Govt. of Telangana, India	2016
	KVPY Fellowship	Rank 26, by DST, Ministry of Science and Technology, Government of India	2014
	NTSE Scholarship	Rank 158, by NCERT, Ministry of Education, Government of India	2012
LANGUAGES	Trilingual – తెలుగు, English, हिन्दी Beginner – 한국어 <i>TOPIK Level 2 (191/200)</i> CITIZENSHIP India		