

CONTACT	Email: vamsi3@outlook.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, Kotlin Tools – Spring, Mockito, GitHub Actions, Docker, 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 involving new features, unit tests, bug fixes, deployments <i>etc.</i>- Received EX (Excellent - 100%) grade in 2022 annual work review, limited to less than 10% of employees.- Cleared 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 (<u>Early Graduate</u>)		
	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- <u>10/10</u> in programming component of all Computer Science courses I had taken during my entire study.- <u>10/10</u> 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	Algorithm Library  Collection of my algorithm implementations in Kotlin for coding competitions ~ <i>active</i>			
	Screen Translator  Android App built on Kotlin and modern Jetpack tools including Compose UI ~ <i>active</i>			
	Project ZEN  My website of knowledge across software development (auto-deployed with CI/CD) ~ <i>active</i>			
	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			
	Railway Signal Controller  - First experience with hardware languages (VHDL) over FPGA board 2018			
	Image Quilting: Texture Synthesis  - paper by Alexei A. Efros <i>et al.</i> implemented using MATLAB 2018			
	Image Processing & Editing Tool  - Spatial image processing like blur, histogram equalization <i>etc.</i> 2017			
	Eclipse OJ  - First experience on development of full-stack Django web application and UI 2017			
	Othello Game  - First experience on rapid development using docs of a new <i>lisp-like</i> language 2017			
COMPETITIVE PROGRAMMING	 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 	2022 Round 1C - Rank 603	Google Foobar	Finished all 5 levels in 2018
	Google Kickstart 	2022 Round C - Rank <u>62</u> 2022 Round A - Rank 155 2021 Round H - Rank <u>57</u> 2021 Round G - Rank <u>83</u> 2020 Round F - Rank 386 2019 Round G - Rank 159 2019 Round F - Rank <u>79</u> 2019 Round E - Rank <u>75</u> 2018 Round A - Rank 151		
	FB Hacker Cup 	2021 Round 1 - Rank 700 2019 Round 2 - Rank 836 2018 Round 2 - Rank 967		
	Project Euler 	Rank 2248 (top 0.21%), by solving 213 challenging mathematics + algorithm problems		
	Codeforces 	Rating 2053 <i>max.</i> (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 <u>20</u> 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 <u>1</u> , 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 TOPIK Level 2 (¹⁹¹ / ₂₀₀) 			
	CITIZENSHIP	India		