


CONTACT	Email: vamsi3@outlook.com Website: vamsi3.github.io LinkedIn: vamsi3 GitHub: vamsi3		
WORK EXPERIENCES	<div> Samsung Electronics (HQ), South Korea <i>Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team</i></div>	Oct 2020 – Present (Software Engineer)	
	Language – Java, Kotlin Tools – Spring, Mockito, GitHub Actions, Docker, Kubernetes		
	<div>- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices <i>via</i> voice.</div> <div>- Involves development of microservice to search and execute target devices from NLP-tagged voice query.</div> <div>- Experience with handling large code involving new features, unit tests, bug fixes, deployments <i>etc.</i></div> <div>- Received EX (Excellent - 100%) grade in 2022 annual work review, limited to less than 10% of employees.</div> <div>- Cleared AI Academy's Computer Vision (Advanced), within Samsung's internal AI certification program</div> <div>- Achieved <u>S/W Professional Level</u> internal coding certification and received additional monetary benefit.</div>		
	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	<div> Indian Institute of Technology (IIT) Bombay <i>B.Tech. in Computer Science and Engineering</i> CGPA: 9.13/10</div>	Aug 2016 – Nov 2019 (Early Graduate)	
	Competitive Programming – C++ Machine / Deep Learning – Python, NumPy, PyTorch		
	<div>- Teaching Assistant (TA) in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018.</div> <div>- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain</div> <div>- <u>10/10</u> in programming component of all Computer Science courses I had taken during my entire study.</div> <div>- <u>10/10</u> in Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, Computer Logic</div>		
	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	<div>Algorithm Library ↗ Collection of my algorithm implementations in Kotlin for coding competitions ~ <i>active</i></div> <div>Screen Translator ↗ Android App built on Kotlin and modern Jetpack tools including Compose UI ~ <i>active</i></div> <div>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</div> <div>AI & Machine Learning ↗ - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search <i>etc.</i> 2019</div> <div>pix2pix: Image-to-Image Translation ↗ - paper by Phillip Isola <i>et al.</i> implemented using PyTorch 2019</div> <div>Compilers ↗ - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019</div> <div>Database Systems ↗ - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018</div> <div>Computer Networks ↗ - Implemented Spanning Tree Protocol, SimpleFTP using sockets <i>etc.</i> 2018</div> <div>Computer Graphics ↗ - A tiny music-box animation rendered and created wholly using OpenGL 2018</div> <div>Railway Signal Controller ↗ - First experience with hardware languages (VHDL) over FPGA board 2018</div> <div>Image Quilting: Texture Synthesis ↗ - paper by Alexei A. Efros <i>et al.</i> implemented using MATLAB 2018</div> <div>Image Processing & Editing Tool ↗ - Spatial image processing like blur, histogram equalization <i>etc.</i> 2017</div> <div>Eclipse OJ ↗ - First experience on development of full-stack Django web application and UI 2017</div> <div>Othello Game ↗ - First experience on rapid development using docs of a new <i>lisp-like</i> language 2017</div>		
COMPETITIVE PROGRAMMING	<div> ICPC ↗</div>	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 2294 (top 0.22%), by solving 210 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	