


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> <div>Language – Java, Kotlin Tools – Spring, Mockito, GitHub Actions, Docker, Kubernetes</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.- 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.</div> <div><div>Samsung Electronics (HQ), South Korea <i>Software Engineer Intern</i> May 2019 – Jul 2019</div><div>Ubisoft Entertainment, India <i>Game Developer Intern</i> May 2018 – Jul 2018</div></div>	Oct 2020 – Present (Software Engineer)	
EDUCATION	<div> Indian Institute of Technology (IIT) Bombay <i>B.Tech. in Computer Science and Engineering</i> CGPA: 9.13/10</div> <div>Competitive Programming – C++ Machine / Deep Learning – Python, NumPy, PyTorch</div> <div><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</div> <div><div>Andhra Pradesh Board of Intermediate Education Percentage: 98.2% Jun 2014 - Mar 2016</div><div>Central Board of Secondary Education CGPA: 10/10 Jun 2012 - Mar 2014</div></div>	Aug 2016 – Nov 2019 (Early Graduate)	
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> <div><div>Google Codejam ↗ 2022 Round 1C - Rank 603</div><div>Google Foobar Finished all 5 levels in 2018</div></div> <div><div>Google Kickstart ↗ <u>2022 Round C - Rank 62</u> 2022 Round A - Rank 155 <u>2021 Round H - Rank 57</u></div><div><u>2021 Round G - Rank 83</u> 2020 Round F - Rank 386 2019 Round G - Rank 159</div><div><u>2019 Round F - Rank 79</u> <u>2019 Round E - Rank 75</u> 2018 Round A - Rank 151</div></div> <div><div>FB Hacker Cup ↗ 2021 Round 1 - Rank 700 2019 Round 2 - Rank 836 2018 Round 2 - Rank 967</div><div>Project Euler ↗ Rank 2294 (top 0.22%), by solving 210 challenging mathematics + algorithm problems</div><div>Codeforces ↗ Rating 2053 <i>max.</i> (Candidate Master) – Best ranks include 16, 77, 81 in Div 2 contests</div><div>Codechef ↗ Rank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55</div><div>SnackDown 2021 Round 1A - Rank 63 DS & Algorithms (Advanced) Certified 2020</div></div>	Rank 27 - 2020 Amritapuri (Online) Rank 11 - 2020 Kharagpur (Online) Rank 70 - 2019 Amritapuri Rank 36 - 2018 Amritapuri Rank 18 - 2018 Chennai	
ACHIEVEMENTS	<div>IIT-JEE Advanced ↗ Rank <u>20</u> across all of India among 1.2 million examinees for admission into IITs 2016</div> <div>NEST Rank 2 across all of India, the test for science university admissions (IISERs) 2016</div> <div>AP-EAMCET ↗ Rank <u>1</u>, the test for university admissions by Govt. of Andhra Pradesh, India 2016</div> <div>TS-EAMCET Rank 10, the test for university admissions by Govt. of Telangana, India 2016</div> <div>KVPY Fellowship Rank 26, by DST, Ministry of Science and Technology, Government of India 2014</div> <div>NTSE Scholarship Rank 158, by NCERT, Ministry of Education, Government of India 2012</div>		
LANGUAGES	Trilingual – తెలుగు, English, हिन्दी Beginner – 한국어 TOPIK Level 2 (¹⁹¹ / ₂₀₀) ↗ CITIZENSHIP India		