

# VAMSI KRISHNA REDDY SATTI

Résumé / CV - December 2021

CONTACT	Primary Email: vamsi3@outlook.com   Google Account: vamsi2519915   GitHub: github.com/vamsi3 LinkedIn: linkedin.com/in/vamsi3   Website: vamsi3.github.io   Project ZEN: vamsi3.github.io/zen		
WORK	<b>Samsung Electronics, South Korea (HQ)</b> Oct 2020 – Present <i>Mobile Communications Division   Software Engineer</i> Language – Java   Framework – Spring Boot, Mockito   Cloud – AWS, Kubernetes - Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices via voice. - Involves development of microservice to search and execute appropriate devices from voice commands. - Achieved <u>S/W Professional Level</u> internal coding certification and received additional monetary benefit. - 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 <u>refactor</u> . <b>Samsung Electronics, South Korea (HQ)   Software Engineer Intern</b> May 2019 – Jul 2019 - Worked on improvements to automations in SmartThings. Received a <u>job offer</u> in recognition of my work. <b>Ubisoft, India   Game Developer Intern</b> May 2018 – Jul 2018 - Integrated ad SDKs into a game in both Android, iOS. Improved save progress feature in server (Node.js).		
EDUCATION	<b>Indian Institute of Technology (IIT) Bombay</b> Aug 2016 – Nov 2019 <i>B.Tech. in Computer Science and Engineering   CGPA: 9.13/10</i> (Early Graduate) Competitive Programming – C++   Machine / Deep Learning – Python, NumPy, PyTorch - <u>Teaching Assistant (TA)</u> in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018. - Bachelor's Project: "Towards Single-Shot Multi-Person 3D Human Pose Estimation" with Prof. Arjun Jain and Prof. Ganesh on anchor-pose approaches to SSD using Facebook AI's maskrcnn-benchmark repository. - 10/10 in AI & Machine Learning, Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, Logic in Computer Science + Programming component of all Computer Science courses I had taken. <b>Andhra Pradesh Board of Intermediate Education   Percentage: 98.2%</b> Jun 2014 - Mar 2016 <b>Central Board of Secondary Education   CGPA: 10/10</b> Jun 2012 - Mar 2014		
COMPETITIVE CODING	<b>ICPC</b> Rank 27 - 2020 Asia Amritapuri (Online)   Rank 11 - 2020 Asia Kharagpur (Online) Rank 70 - 2019 Asia Amritapuri   Rank 18 - 2018 Asia Chennai   Rank 36 - 2018 Asia Amritapuri <b>FB Hacker Cup</b> 2021 Round 1 - Rank 700   2019 Round 2 - Rank 836   2018 Round 2 - Rank 967 <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>Project Euler</b> Rank 2229 (top 0.21%), by solving <u>210</u> challenging mathematics + algorithm problems <b>Codeforces</b> Rating 2053 max. ( <u>Candidate Master</u> ) – Best ranks include 16, 77, 81 in Div 2 contests <b>Codechef</b> <u>Rank 988</u> (Global) - Best ranks include 8, 15, 19, 20, 34, 41, 55, 90 in Long Challenges SnackDown 2021 Round 1A - Rank 63   DS & Algorithms Certified (Advanced) 2020 <b>Project ZEN</b> My reference website of self-written codes since graduation (2020 – Present) related to Competitive Programming and also includes Deep Learning, Image Processing, etc.		
ML + IMAGE PROCESSING	<b>CS-335: AI &amp; Machine Learning (in Python + NumPy)</b> 2019 Implemented Feed-Forward + Convolutional Neural Nets, Ridge and Lasso regression, K-means clustering, Ensemble methods (Bagging + AdaBoost), Agents (Value / Policy Iteration), Minimax algorithm + A* search <b>pix2pix: Image-to-Image Translation</b> - paper by Phillip Isola <i>et al.</i> implemented using PyTorch 2019 <b>Image Quilting: Texture Synthesis and Transfer</b> - paper by Alexei A. Efros <i>et al.</i> using MATLAB 2018 <b>Simple GAN</b> - Generative Adversarial Neural Network (GAN) on MNIST dataset using PyTorch 2018 <b>Image Processing &amp; Editing Tool</b> - Spatial image processing like blur, histogram equalization etc. 2017		
HONORS	<b>IIT-JEE Advanced</b> Rank <u>20</u> across all of India among 1.2 million examinees for admission into IITs 2016 <b>NEST</b> Rank <u>2</u> across all of India, the test for science university admissions (IISERs) 2016 <b>AP-EAMCET</b> Rank <u>1</u> , the test for university admissions by Govt. of Andhra Pradesh, India 2016 <b>TS-EAMCET</b> Rank <u>10</u> , the test for university admissions by Govt. of Telangana, India 2016 <b>KVPY Fellowship</b> Rank <u>26</u> , by DST, Ministry of Science and Technology, Government of India 2014 <b>NTSE Scholarship</b> Rank <u>158</u> , by NCERT, Ministry of Education, Government of India 2012		
LANGUAGES	Native – తెలుగు   Fluent – English, हिन्दी   Basic – 한국어		
	CITIZENSHIP	India	