

VAMSI KRISHNA REDDY SATTI

Résumé / CV - January 2022

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	Samsung Electronics (HQ) - 삼성전자, South Korea Oct 2020 – Present <i>Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team</i> (Software Engineer) Language – <u>Java</u> Framework – Spring Boot, Mockito Cloud – AWS, Kubernetes - 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 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> . Samsung Electronics, South Korea (HQ) Software Engineer Intern May 2019 – Jul 2019 - Worked on improvements to automations in SmartThings. Received a <u>job offer</u> in recognition of my work. Ubisoft, India Game Developer Intern May 2018 – Jul 2018 - Integrated ad SDKs into a game in both Android, iOS. Improved save progress feature in server (Node.js).		
EDUCATION	Indian Institute of Technology (IIT) Bombay Aug 2016 – Nov 2019 <i>B.Tech. in Computer Science and Engineering</i> CGPA: 9.13/10 (Early Graduate) Competitive Programming – <u>C++</u> Machine / Deep Learning – <u>Python</u> , 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. 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		
COMPETITIVE CODING	ICPC 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 FB Hacker Cup 2021 Round 1 - Rank 700 2019 Round 2 - Rank 836 2018 Round 2 - Rank 967 Google Codejam 2021 Round 1A - Rank 884 Google Foobar Finished all 5 levels in 2018 Google Kickstart 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 Project Euler Rank 2229 (top 0.21%), by solving <u>210</u> challenging mathematics + algorithm problems Codeforces Rating 2053 max. (<u>Candidate Master</u>) – Best ranks include 16, 77, 81 in Div 2 contests Codechef Rank 988 (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 Project ZEN 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	CS-335: AI & Machine Learning (in Python + NumPy) 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 pix2pix: Image-to-Image Translation - paper by Phillip Isola <i>et al.</i> implemented using PyTorch 2019 Image Quilting: Texture Synthesis and Transfer - paper by Alexei A. Efros <i>et al.</i> using MATLAB 2018 Simple GAN - Generative Adversarial Neural Network (GAN) on MNIST dataset using PyTorch 2018 Image Processing & Editing Tool - Spatial image processing like blur, histogram equalization etc. 2017		
HONORS	IIT-JEE Advanced Rank <u>20</u> across all of India among 1.2 million examinees for admission into IITs 2016 NEST Rank <u>2</u> 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 <u>10</u> , the test for university admissions by Govt. of Telangana, India 2016 KVPY Fellowship Rank <u>26</u> , by DST, Ministry of Science and Technology, Government of India 2014 NTSE Scholarship Rank <u>158</u> , by NCERT, Ministry of Education, Government of India 2012		
LANGUAGES	Native – తెలుగు Fluent (Trilingual) – English, हिन्दी Basic – 한국어 CITIZENSHIP India		