VAMSI KRISHNA REDDY SATTI

Résumé / CV - March 2022

CONTACT
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WORK

Samsung Electronics (HQ), South Korea — Oct 2020 – Present
Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team — *(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 *via* voice.
- Involves development of microservice to search and execute appropriate devices from voice commands.
- Received <u>EX (Excellent) grade</u> (100%) in 2021 annual work review, limited to less than 10% of employees.
- Achieved <u>S/W Professional Level</u> internal coding certification and received additional monetary benefit.
- Passed the AI Academy's <u>Computer Vision (Advanced)</u>, within Samsung's internal AI certification program
- Experience with handling large code (4+ years old) including <u>new features, unit tests, bug fixes</u>, making deployments using pipelines, monitoring health and a primary programmer for the current major <u>refactor</u>.

Samsung Electronics (HQ), South Korea | *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
B.Tech. in Computer Science and Engineering | 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.
- <u>10/10</u> 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 <u>2021 Round H - Rank 57</u> | <u>2021 Round G - Rank 83</u> | 2019 Round G - Rank 159
2019 Round F - Rank 79 | 2019 Round E - Rank 75 | 2018 Round A - Rank 151

Project Euler Rank 2275 (top 0.22%), 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 <u>Rank 988 (Global)</u> - Best ranks include 8, 15, 19, 20, 34, 41, 55, 90 in Long Challenges
SnackDown 2021 Round 1A - Rank 63 | DS & Algorithms (Advanced) Certified 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*.

COMPUTER VISION + ML

CS-335: AI & Machine Learning *(in Python + NumPy)* — 2019
Implemented neural networks (CNN + RNN), Ridge + Lasso regression, SVMs, K-means clustering, Ensemble (Bagging + AdaBoost), Agents (Value + Policy Iteration), Minimax algorithm + A* search

pix2pix: Image-to-Image Translation - paper by Phillip Isola *et al.* implemented using PyTorch — 2019
Image Quilting: Texture Synthesis and Transfer - paper by Alexei A. Efros *et al.* 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	<u>Rank 20</u> across all of India among 1.2 million examinees for admission into IITs	2016
NEST	<u>Rank 2</u> across all of India, the test for science university admissions (IISERs)	2016
AP-EAMCET	<u>Rank 1</u>, the test for university admissions by Govt. of Andhra Pradesh, India	2016
TS-EAMCET	<u>Rank 10</u>, the test for university admissions by Govt. of Telangana, India	2016
KVPY Fellowship	<u>Rank 26</u>, by DST, Ministry of Science and Technology, Government of India	2014
NTSE Scholarship	<u>Rank 158</u>, by NCERT, Ministry of Education, Government of India	2012

LANGUAGES **Trilingual** – తెలుగు, English, हिन्दी | **Basic** – 한국어 *TOPIK Level 2 (191/200)* **CITIZENSHIP** India