VAMSI KRISHNA REDDY SATTI

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, South Korea (HQ)   Oct 2020 – Present
Mobile Communications Division | 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.
- Achieved <u>S/W Professional Level</u> internal coding certification and received additional monetary benefit.
- 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, 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
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   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   <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

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 *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   **Native** – Telugu | **Fluent** – English, Hindi | **Basic** – Korean   **CITIZENSHIP**   India