VAMSI KRISHNA REDDY SATTI

CONTACT
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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 G - Rank 84 | 2020 Round F - Rank 386 | 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 974</u> (Global) - Best ranks include 8, 15, 19, 20, 34, 41, 55, 90 in Long Challenges. Qualified their Data Structures and Algorithms Certification (Advanced Level) in 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, the test for admission into prestigious IITs in India	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 Department of Science and Technology, Govt. of India	2014
NTSE Scholarship	<u>Rank 158</u>, by Ministry of Human Resource Development, Govt. of India	2012

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