VAMSI KRISHNA REDDY SATTI

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WORK EXPERIENCES

SAMSUNG Samsung Electronics (HQ), South Korea   Oct 2020 – Present
Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team   *(Software Engineer)*

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 target devices from structured voice query.
- 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 refactor.

- Received EX (Excellent) grade (100%) in 2021 annual work review, limited to less than 10% of employees.
- Achieved S/W Professional Level internal coding certification and received additional monetary benefit.
- Passed the AI Academy's Computer Vision (Advanced), within Samsung's internal AI certification program

Samsung Electronics (HQ), South Korea	*Software Engineer Intern*	May 2019 – Jul 2019
Ubisoft Entertainment, India	*Game Developer Intern*	May 2018 – Jul 2018

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 – C++ | Machine / Deep Learning – Python, NumPy, PyTorch

- Teaching Assistant (TA) in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018.
- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain
- 10/10 in programming component of all Computer Science courses I had taken during my entire study.
- 10/10 in Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, Computer Logic

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

GITHUB REPOSITORIES

Project ZEN My website of self-written codes on Algorithms since 2020 (deployed using CI/CD)	~ 2022
Reinforcement Learning - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP	2019
AI & Machine Learning - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search *etc*.	2019
pix2pix: Image-to-Image Translation - paper by Phillip Isola *et al.* implemented using PyTorch	2019
Compilers - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison	2019
Database Systems - SQL queries, schema design for mobile/web apps, use of connectors (JDBC)	2018
Computer Networks - Implemented Spanning Tree Protocol, SimpleFTP using sockets *etc*.	2018
Computer Graphics - A tiny music-box animation rendered and created wholly using OpenGL	2018
Railway Signal Controller - First experience with hardware languages (VHDL) over an FPGA board	2018
Image Quilting: Texture Synthesis - Implemented the paper by Alexei A. Efros *et al.* using MATLAB	2018
Image Processing & Editing Tool - Spatial image processing like blur, histogram equalization *etc*.	2017
Eclipse OJ - First experience on development of full fledged web application and UI (Django, Git)	2017
Othello Game - First experience on rapid development using docs of a new *lisp-like* language	2017

CODING CONTESTS

ICPC   Rank 27 - 2020 Amritapuri (Online) | Rank 11 - 2020 Kharagpur (Online)
Rank 70 - 2019 Amritapuri | Rank 36 - 2018 Amritapuri | Rank 18 - 2018 Chennai

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

FB Hacker Cup   2021 Round 1 - Rank 700 | 2019 Round 2 - Rank 836 | 2018 Round 2 - Rank 967

Project Euler   Rank 2275 (top 0.22%), by solving 210 challenging mathematics + algorithm problems

Codeforces   Rating 2053 *max*. (Candidate Master) – Best ranks include 16, 77, 81 in Div 2 contests

Codechef   Rank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55
SnackDown 2021 Round 1A - Rank 63 | DS & Algorithms (Advanced) Certified 2020

ACHIEVEMENTS

IIT-JEE Advanced	Rank 20 across all of India among 1.2 million examinees for admission into IITs	2016
NEST	Rank 2 across all of India, the test for science university admissions (IISERs)	2016
AP-EAMCET	Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India	2016
TS-EAMCET	Rank 10, the test for university admissions by Govt. of Telangana, India	2016
KVPY Fellowship	Rank 26, by DST, Ministry of Science and Technology, Government of India	2014
NTSE Scholarship	Rank 158, by NCERT, Ministry of Education, Government of India	2012

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