

VAMSI KRISHNA REDDY SATTI

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CONTACT

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WORK EXPERIENCES



Samsung Electronics (HQ), South Korea (Onsite)
Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team

Sept 2020 — Present
(Software Engineer)

Language — Java, Kotlin | Tools — Spring, Mockito, GitHub Actions, Docker, 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 NLP-tagged voice query.
- Experience with handling large code involving new features, unit tests, bug fixes, deployments *etc.* with broad experience on complete lifecycle of projects with backend services from ideation to deployment.
- Developer for the Bixby Home Platform — primarily involved with the backend code and infrastructure.
- Lead developer for device-search microservice on Bixby Home Platform, with fuzzy & advanced search.
- Core developer on new *upcoming* features with work on backend microservices with graph databases.
- Received EX (Excellent - 100%) grade in 2022 annual work review, limited to less than 10% of employees.
- Cleared both NLP and Computer Vision (Advanced) within Samsung's internal AI certification program.
- Achieved S/W Professional Level and Data Science Level 2 internal certifications with monetary benefit.

Samsung Electronics (HQ), South Korea (Onsite)
Ubisoft Entertainment, India (Onsite)

Software Engineer Intern
Game Developer Intern

May 2019 — Jul 2019
May 2018 — Jul 2018

EDUCATION



Indian Institute of Technology (IIT) Bombay, India (Onsite)
B.Tech. in Computer Science and Engineering | CGPA: 9.13 / 10

Aug 2016 — Nov 2019
(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

GITHUB REPOSITORIES

Screen Translator (30★) — Android App built with Kotlin, modern Jetpack tools and Compose UI ~ *active*
Algorithm Library — Collection of my algorithm implementations in Kotlin for coding competitions ~ *active*
Project ZEN — My website of knowledge across software development (auto-deployed with CI/CD) ~ *active*

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 FPGA board 2018
Image Quilting: Texture Synthesis — paper by Alexei A. Efros *et al.* implemented using MATLAB 2018
Image Processing & Editing Tool — Spatial image processing like blur, histogram equalization *etc.* 2017
Eclipse OJ — First experience on development of full-stack Django web application and UI 2017
Othello Game — First experience on rapid development using docs of a new *lisp-like* language 2017

COMPETITIVE PROGRAMMING



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 — 2022 Round 1C - Rank 603 | **Google Foobar** — Finished all 5 levels in 2018
Google Kickstart — 2022 Round C - Rank 62 | 2022 Round A - Rank 155 | 2021 Round H - Rank 57
2021 Round G - Rank 83 | 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
FB Hacker Cup — 2021 Round 1 - Rank 700 | 2019 Round 2 - Rank 836 | 2018 Round 2 - Rank 967
Project Euler — Rank 2266 (top 0.21%), by solving 219 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