

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

Oct 2020 – Present
(Software Engineer)

- Language – Java, Kotlin | Tools – Spring, Mockito, GitHub Actions, Docker, Kubernetes, Gremlin
- 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 – Android App built on Kotlin and modern Jetpack tools including 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 2200 (top 0.21%), by solving 216 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