CONTACT

Email: vamsi3@outlook.com @ | Gmail: vamsi2519915@gmail.com @ | Website: vamsi3.github.io ₪ Current Residence: Suwon-si, Gyeonggi-do, South Korea & | LinkedIn: vamsi3 & | GitHub: vamsi3 &

Work **EXPERIENCES**

Samsung Electronics (HQ), South Korea (Onsite)

Software Engineer | Artificial Intelligence (AI) Team, Mobile Division

Oct 2020 - Present

Language – Java, Kotlin Tools - Spring, Mockito, GitHub Actions, Docker, Kubernetes

- Working at the intersection of Bixby (Al cloud) and SmartThings (IoT cloud) to control IoT devices via voice.
- Experience with handling large code involving new features, unit tests, bug fixes, deployments, etc., with broad experience in complete lifecycle of projects with backend services from ideation to deployment.
- Worked on a microservice to search and execute devices through SmartThings from user's IoT utterance.
- Developer for the Bixby Home Platform & primarily involved with the backend code and infrastructure.
- Refactored new device-search microservice from existing services on Bixby Home Platform during internal cloud migration. Developed new features supporting fuzzy & advanced search after migration.
- Working on new recommendation features together with the product team. Developing new microservices with graph databases to support the new personalized recommendations for users in Bixby.
- Developer for new LLM integration into Bixby. Member of initial developer task-force to integrate LLMs into Bixby (12 out of 300 in the AI Team) and develop technical foundations toward product goals.
- Currently part of a core team working on IoT device control using new Bixby with LLM. [details redacted]
- Received EX (Excellent 100%) grade in 2022,24 annual reviews, 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

- India's most reputed and competitive university for STEM, and especially Computer Science.
- 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

SELECT **PROJECTS** Screen Translator (33★) & 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 Al & 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 Eclipse OJ @ - First experience on development of full-stack Django web application and UI 2017

COMPETITIVE PROGRAMMING

Rank 27 - 2020 Amritapuri (Online) ICPC ₽ Rank 70 - 2019 Amritapuri | Rank 36 - 2018 Amritapuri | Rank 18 - 2018 Chennai 2022 Round 1C - Rank 603 Google Foobar Google Codejam ♂

Rank 11 - 2020 Kharagpur (Online)

Finished all 5 levels in 2018 2022 Round A - Rank 155 Google Kickstart ≥ 2022 Round C - Rank 62 | | 2021 Round H - Rank 57 2020 Round F - Rank 386 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 Meta HackerCup ≥ 2023 Round 1 - Rank 467 2022 Round 2 - Rank 1232 | 2021 Round 2 - Rank 1690

2019 Round 2 - Rank 836 | 2018 Round 2 - Rank 967

Rank 2258 (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 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, Govt. of India 2014 NTSE Scholarship Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012

Trilingual — తెలుగు, English, हिन्दी | Beginner — 한국어 TOPIK Level 2 (191/200) ਦ

CITIZENSHIP

India