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)
Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team

Oct 2020 — Present (Software Engineer)

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.
- 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 a 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) | Software Engineer Intern Ubisoft Entertainment, India (Onsite) | 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
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** ω - 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 a - 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 a - 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

Meta HackerCup

Rank 27 - 2020 Amritapuri (Online) | Rank 11 - 2020 Kharagpur (Online) | Rank 10 - 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 2021 Round G -

2019 Round F - Rank 79 | 2019 Round E - Rank 75 | 2018 Round A - Rank 151 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

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 Rank 2 across all of India, the test for science university admissions (IISERs) **NEST** 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 (1º½00) ෙ CITIZENSHIP India