CONTACT

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WORK EXPERIENCE



Samsung Electronics (HQ), South Korea (Onsite)

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

Oct 2020 — Present

Language – Java, Kotlin | Tools – Spring, Mockito, CI/CD, Docker, Kubernetes, LLMs

- 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 LLM integration into Bixby, part of a core team working on IoT device control with LLM.
- 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 <u>Data Science Level 2</u> internal certifications with monetary benefit.
- Organized official study groups to mentor new employees on Software Engineering and Data Science.

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 (36★)
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

Al & Machine Learning & - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc.

pix2pix: Image-to-Image Translation & - paper by Phillip Isola et al. implemented using PyTorch

Compilers & - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison

Database Systems & - SQL queries, schema design for mobile/web apps, use of connectors (JDBC)

Computer Networks & - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc.

Computer Graphics & - A tiny music-box animation rendered and created wholly using OpenGL

Eclipse OJ & - First experience on development of full-stack Django web application and UI

2019

2019

2019

2019

2019

2019

2019

2018

2018

2018

COMPETITIVE PROGRAMMING

Rank 27 - 2020 Amritapuri (Online) Rank 11 - 2020 Kharagpur (Online) ■■ ICPC 🗈 Rank 70 - 2019 Amritapuri | Rank 36 - 2018 Amritapuri | Rank 18 - 2018 Chennai 2022 Round 1C - Rank 603 Google Foobar Finished all 5 levels in 2018 2022 Round A - Rank 155 2020 Round F - Rank 386 Google Kickstart ≥ 2022 Round C - Rank 62 | 2021 Round H - Rank 57 2021 Round G - Rank 83 2019 Round G - Rank 159 2019 Round F - Rank 79 <u>75</u> | 2018 Round A - Rank 151 2019 Round E - Rank 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 Proiect Euler ≥ Rank 2258 (top 0.21%), by solving 219 challenging mathematics + algorithm problems

Codechef ம

Rank 2258 (top 0.21%), by solving 219 challenging mathematics + algorithm problems 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 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 Rank 26 by DST, Ministry of Science and Technology, Govt. of India **KVPY Fellowship** 2014 NTSE Scholarship Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012

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

CITIZENSHIP

India