**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 (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 Ø 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 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 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 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 70 - 2019 Amritapuri | Rank 36 - 2018 Amritapuri | Rank 18 - 2018 Chennai

Rank 11 - 2020 Kharagpur (Online)

Google Codejam & 2022 Round 1C - Rank 603

Google Foobar Finished all 5 levels in 2018 Google Kickstart ≥ 2022 Round C - Rank 62 2021 Round H - Rank 57 2022 Round A - Rank 155 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 ≥ Project Euler ≥ Codeforces & Codechef ≥

2021 Round 1 - Rank 700 | 2019 Round 2 - Rank 836 | 2018 Round 2 - Rank 967 Rank 2266 (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 **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 Rank 158, by NCERT, Ministry of Education, Government of India NTSE Scholarship 2012

Trilingual — 憂めめ、English、 हिन्दी | Beginner — 한국어 TOPIK Level 2 (191/200) ය

**CITIZENSHIP** 

India