

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 (AI 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 Data Science Level 2 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)** | Software Engineer Intern May 2019 – Jul 2019  
**Ubisoft Entertainment, India (Onsite)** | Game Developer Intern 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 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  
**Eclipse OJ** - First experience on development of full-stack Django web application and UI 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  
**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  
**Project Euler** - 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  
**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, Govt. of India 2014  
**NTSE Scholarship** - Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012

LANGUAGES

Trilingual — తెలుగు, English, हिन्दी | Beginner — 한국어 TOPIK Level 2 (<sup>191</sup>/<sub>200</sub>) CITIZENSHIP India