



CONTACT

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WORK EXPERIENCE


Google DeepMind, India | OnsiteSenior Software Engineer (L5) - Machine Learning | Gemini Global TeamLanguages - C++, Python | Tools - Bazel, gRPC, JJ, other Google internal tools

Samsung Electronics (HQ), South Korea | OnsiteSoftware Engineer - Backend & Infrastructure | AI Team, Mobile DivisionLanguages - Java, Kotlin | Tools - Spring Boot, Gradle, Docker, K8s, LLM

- Driving development of key Gemini features, from agentic systems and i18n to student tools.
- Shipped high-quality Workspace integrations for i18n users by upgrading to new internal frameworks.
- Owned the backend internationalization for Scheduled Actions, enabling its successful global launch.
- Spearheading a new student-focused agentic feature, owning the full lifecycle with FE, UX, PM, etc.

- Engineered backend services at the intersection of Bixby (AI) and SmartThings (IoT) clouds.
- Led the end-to-end integration of LLMs into Bixby, enabling complex, natural language device control.
- Architected a new device search & execution microservice during a cloud migration, introducing fuzzy and advanced search capabilities to improve device discovery.
- Developed a recommendation engine using graph databases to deliver personalized user experiences.
- Received top performance rating ('Exceeds Most'), awarded to <10% of employees (2021, 2023).
- Initiated and led official study groups to mentor new employees on Software Engineering & Data Science.
- Achieved advanced certifications (NLP, CV, Data Science) with US \$10,000 in certification bonuses.

EDUCATION

Indian Institute of Technology (IIT) Bombay, India | OnsiteB.Tech. in Computer Science and Engineering | CGPA: 9.13 / 10Competitive Programming - C++ | Machine / Deep Learning - Python, NumPy, PyTorch

- India's most reputed and competitive university in STEM. Ranked 118 in QS World University Rankings
- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain
- Student Instructor in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018
- 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, etc...

SELECT PROJECTS

Digital GardenMy writings on technology, software engineering and programming2020-now

Screen Translator (88★)Android App built with Kotlin, Jetpack tools and Compose UI2022-2024

Reinforcement Learning- UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP2019

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 PyTorch2019

Compilers- Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison2019


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 OpenGL2018

Eclipse OJ- First experience on development of full-stack Django web application and UI2017

COMPETITIVE PROGRAMMING

ICPCRank 27 - 2020 Amritapuri (Online) | Rank 11 - 2020 Kharagpur (Online)Rank 70 - 2019 Amritapuri | Rank 36 - 2018 Amritapuri | Rank 18 - 2018 Chennai

Google Codejam2022 Round 1C - Rank 603Google FoobarFinished all 5 levels in 2018

Google Kickstart2022 Round C - Rank 62 | 2022 Round A - Rank 155 | 2021 Round H - Rank 572021 Round G - Rank 83 | 2020 Round F - Rank 386 | 2019 Round G - Rank 1592019 Round F - Rank 79 | 2019 Round E - Rank 75 | 2018 Round A - Rank 151

Meta HackerCup2023 Round 1 - Rank 467 | 2022 Round 2 - Rank 1232 | 2021 Round 2 - Rank 16902019 Round 2 - Rank 836 | 2018 Round 2 - Rank 967

Project EulerRank 2430 (top 0.18%), by solving 232 challenging mathematics + algorithm problems

CodeforcesRating 2053 max. (Candidate Master) - Best ranks include 16, 77, 81 in Div 2 contests

CodechefRank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55SnackDown 2021 Round 1A - Rank 63 | DS & Algorithms (Advanced) Certified 2020

ACHIEVEMENTS

IIT-JEE AdvancedRank 20 across all of India among 1.2 million examinees for admission into IITs2016

NESTRank 2 across all of India, the test for science university admissions (IISERs)2016

AP-EAMCETRank 1, the test for university admissions by Govt. of Andhra Pradesh, India2016

TS-EAMCETRank 10, the test for university admissions by Govt. of Telangana, India2016

KVPY FellowshipRank 26 by DST, Ministry of Science and Technology, Govt. of India2014

NTSE ScholarshipRank 158 with monetary benefit by Ministry of Education, Govt. of India2012

LANGUAGES

Trilingual - తెలుగు, English, हिन्दी | Beginner - 한국어 TOPIK Level 2 (19½/200)CITIZENSHIPIndia