

CONTACT

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WORK EXPERIENCE



Google DeepMind, India

| Onsite

Senior Software Engineer (L5) – Machine Learning

| Gemini Global Team

Languages – C++, Python


| Tools – Bazel, gRPC, JJ, other Google internal tools

- 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.



Samsung Electronics (HQ), South Korea

| Onsite

Software Engineer – Backend & Infrastructure

| AI Team, Mobile Division

Languages – Java, Kotlin

| Tools – Spring Boot, Gradle, Docker, K8s, LLM

- 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

| Onsite

B.Tech. in Computer Science and Engineering

| CGPA: 9.13 / 10

Competitive 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 Garden

My writings on technology, software engineering and programming

2020-now

Screen Translator (88★)

Android App built with Kotlin, Jetpack tools and Compose UI

2022-2024

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 2430 (top 0.18%), by solving 232 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 (191/200)

CITIZENSHIP

India