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Abhinav Ramachandran

Software Engineer

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I am a skilled problem solver with a combination of strong technical and algorithmic know-how, and a penchant for reasoning about complex and ambiguous systems. I am experienced in working on impactful, large-scale products at multiple industry-leading companies. I pick up new technologies quickly, and I communicate effectively and professionally. I have a wide range of interests both in and outside of technology, including quantum computing, AI, robotics, blockchain, running, motorcycle riding, bouldering, and Formula 1.

TECHNICAL EXPERIENCE

Software Engineer / Google
Google Search

September 2022 — October 2025
Mountain View

- Worked on both **core ranking changes and features** to make Google Search more useful in user shopping journeys.
- Employed **Large Language Models** in Google's AI summaries, including comprehensive integration, grounding, and evaluation, for **100M+ DAU**.

Software Engineer / Uber
Uber Rent

July 2021 — August 2022
Bangalore

- Coded in **Java and GoLang** to develop **microservices** that interfaced with external APIs.
- Improved the reliability of the third-party-gateway service by **over 90%**.

Software Engineer Intern / Apple
Site Reliability Engineering

July 2020 — December 2020
Hyderabad (Remote)

- Managed **thousands of load-balancing devices** under the Edge Traffic Delivery (Site Reliability Engineering) team.
- Worked on the **end-to-end development of an internal dashboard/search-engine** to assist engineers in querying relevant information to diagnose, troubleshoot, and address production issues.

Software Engineer Intern / Uber
Uber HCV

May 2020 — July 2020
Bangalore (Remote)

- Worked on the **B2B Employee Transportation** (vehicle-routing) problem for Uber's High Capacity Vehicles (HCV) offering.
- Conceptualized, drafted, and deployed **routing and scheduling algorithms**.
- Employed **optimization techniques**, such as **heuristic and genetic algorithms**, to achieve state-of-the-art performance.

COMPETITIONS AND ACHIEVEMENTS

Honorable Mention	45th Annual ICPC World Finals Dhaka	November 2022
Rank 5	ICPC Asia Amritapuri Regional Contest	August 2021
Global Rank 22/ National Rank 6	Google Kickstart Round D 2021	July 2021
Global Rank 244/ National Rank 29	Google Hash Code 2021	February 2021
Master (rating: 2190)	Codeforces	August 2020
Rank 4	HackerEarth BattleOfBots (Artificial Intelligence)	November 2016
1570/1600	SAT Examination	November 2016

EDUCATION

Bachelor Of Engineering, Computer Science, Birla Institute of Technology & Science Pilani
Graduated With Distinction, Received Merit Scholarship

August 2021
CGPA: 9.06

COLLEGE ACTIVITIES

Editor In Chief / English Press Club BITS Pilani
Campus Newsletter

July 2019 — June 2020
Pilani

- **Spearheaded the publication of the college's monthly newsletter**, which reports on the various happenings on campus.
- **Managed** a team of more than **40 students**, and garnered a readership of over **4000 members** of the campus community.

Team Member / Team AcYut
Robotics Team: Humanoid Robotics Soccer Competition

August 2017 — January 2020
Pilani

- Worked in **ROS software development**, bipedal walk algorithms, and **simulation**.
- Utilized **reinforcement learning techniques** to tune the parameters of the robot.

SKILLS

Programming Tools	C++, Python, git, Java, GoLang
Technical Skills	AI-Assisted Building, Quality For Information Systems, Algorithms, Scalable Software
Communication	English, Tamil