

Arnab Sen

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EXPERIENCE

SWE (L4), Google

Jun 2023 – present | Bangalore, India

- **Led the design and launch of an end-to-end ML system** to recover privacy-impacted View-Through Conversions, projected to generate **\$XXM in annual revenue** and achieve competitive parity with other major ad platforms like Meta, TikTok.
- Engineered a high-throughput data processing pipeline to handle **~20 billion daily ad impressions** and implemented a TFX-based machine learning model for conversion prediction.
- Collaborated with cross-functional teams including Data Science, Ads Privacy, and Bidding to align on project goals and ensure successful delivery.
- Promoted to **L4 Software Engineer** in 2024 with an **"Outstanding Impact"** rating for significant contributions to core projects
- Worked with Tensorflow, C++ (*received readability*), Flume, SQL, Python.

AR/VR Intern, GMetri

Apr 2023 – Jul 2023

- Worked on the toolkit to generate dynamic metaverse based on user input utilizing OpenAI's GPT model.
- Designed and implemented a user-friendly UI for creating AI Brains and uploading information to populate and personalize their metaverse.
- Executed API integration to ensure the full functionality of the product, enabling smooth communication between different components.
- Tech Stack: *React.js, Typescript, Storybook, Node.js, Docker*

SDE Intern, Cypherock

Oct 2022 – Mar 2023

- Successfully integrated new protocol and server APIs to facilitate cryptocurrency exchange for users.
- Developed and integrated swap functionality for multiple cryptocurrencies including Bitcoin, Ethereum, Polygon, Solana, & ERC20 tokens in device firmware.
- Designed and implemented user-friendly swap functionality screens in the desktop application.
- *Tech Stack: C++, STM32 microcontrollers, Typescript, React.js, Electron.js, Redis, MongoDB.*

SWE Intern, Google

May 2022 – Aug 2022 | Bangalore, India

- Implemented an email-based notification system for an Ads Resource Engineering Team.
 - Explored the various notification platforms available at Google to select the best fit for our use case.
 - Prepared a detailed design doc for the implementation with the component overview, workflow diagrams, etc.
 - Integrated the notification system with a feature to demonstrate its working.
- Implemented features, fixed bugs, & performed unit testing in an internal Ads Planning Tool.
- Worked with *Java* in the backend and *Angular JS & Javascript* in the front end.

Student Intern, Summer of Bitcoin

Jul 2021 – Sep 2021

- Improved support for User Statically Defined Tracing (USDT) in Bitcoin core by adding new tracepoints and scripts, leveraging eBPF (extended Berkeley Packet Filter) technology.
- Learned Bitcoin Protocol Development.
- Conducted a session on "Bitcoin Script" with an audience of **150**.
- Worked mainly with C++, *gdb*, *Python*, and *Makefile*. (PRs: [PR-1](#), [PR-2](#))

EDUCATION

B.Tech, Indian Institute of Engineering Science and Technology

2019 – 2023 | Shibpur, India

Stream: **Computer Science and Technology** (CGPA **9.62**)

SKILLS

Languages — C/C++, Python3, Javascript, Golang, Java, Typescript • **Frameworks** — React JS, Vue3, Bootstrap, Tailwind, Flask, Ruby on Rails, Express Js • **Others** — Firebase, MongoDB, Postgresql, Linux, Docker, Git

AWARDS

Cyber-Security Hackathon by, RISE ↗ 2nd position among 22k participants in the Cybersecurity Hackathon.	Sep 2022
Codevita 2022, TCS Ranked 98 globally among 136,054 students (from 34 countries) in Round 2.	Apr 2022
Hashcode 2022, Google All India Rank of 25 and a global rank of 311 with a score of 3001126 pts.	Feb 2022
ICPC Asia Kanpur-Mathura Regionalist 2020, ACM-ICPC Ranked 72 among 200+ teams.	Aug 2021
Summer of Bitcoin ↗ Among the 50 students that were selected out of 5000+ applicants.	Jun 2021
Best Hardware Hack, Major League Hacking ↗ Won the 48 Hour hackathon in the Hardware Category.	Jan 2021
CoronaSafe Engineering Fellowship Program, AICTE ↗ Secured a rank in the top 24 out of 50,452 applicants.	Jan 2021
XROS Fellowship, Reskill, FICCI, Digital India, Meta ↗ Among the top 100 candidates selected out of 10,000 applications & 2,500 project proposals.	Apr 2023

CODING PROFILES

- **Leetcode** rating 2006, top 2.31%. [arnabsen1729](#) [↗](#)
- **Codeforces** rating 1644 tagged Expert. [arnab1729](#) [↗](#)
- **CodeChef** rating 1841, 4-stars. [arnab1729](#) [↗](#)
- **CTF Time** all India ranking 76 and 1116 globally. [0xw3bs3c](#) [↗](#)

BLOG

<https://arnabsen.dev>

- Technical Deep Dive articles on core computer science topics like Graph Databases, Compression Schemes, etc.
- 1.7k views per month.
- 700+ users per month.
- 2 blogs features on Hashnode.