DHRUV CHOUHAN

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Education

Indian Institute of Information Technology, Lucknow　　　　　　　November 2022 – June 2026 (Expected)
Bachelor of Technology in Information Technology; CGPA: 8.56 (3.43/4.0)　　　　　　　　　　　　*Lucknow, UP*

Experience

Google — Software Engineering Intern　　　　　　　　　　　　　　　　　　June 2025 – August 2025
- Enhanced **networking security** for backend systems by contributing to the **Google Cloud Armor** platform.
- Integrated **Cloud Armor Control Plane** with **Cloud Logging** to enable **real-time traffic monitoring and analysis**.
- Developed a logging pipeline that enhanced **detection and response to Layer 7 DDoS attacks**, mitigating approximately **10% of specific annual threats** to customer backends.
- Implemented a **payload segmentation algorithm** to optimize logging of large data payloads for customer projects.
- Improved backend reliability by writing unit tests that achieved **90% code coverage** across API endpoints.

Open Source Contributor — Zulip link ↗　　　　　　　　　　　　　September 2023 – March 2024
- Resolved **4 UI bugs** in Zulip's settings section, enhancing interface stability.
- Improved dropdown consistency across Firefox, Chrome, and Safari, ensuring a seamless and uniform user experience.
- Resolved multifaceted **frontend issues** in Zulip on compose feed, development environment, and sidebars.

Projects

GraspEaser | Turborepo, Express.js, Next.js, Prisma, PostgreSQL, Langchain link ↗ live ↗　　　February 2025
- Constructed **content summarizing application** which allows people with ADHD and Dyslexia to learn with ease.
- Implemented RAG (Retrieval Augmented Generation) with **Langchain** and **Google Gemini** for summarization.
- Integrated **Text to Speech** functionality on the frontend to simplify the learning process for people.

stu-mingle | Node.js, Websockets, WebRTC, Express.js, Next.js link ↗ live ↗　　　　　　　June 2024
- Engineered a **real-time** matchmaking and video calling application using Socket.IO and WebRTC.
- Developed a matchmaking engine leveraging **Node.js event-driven architecture** to obtain speed and efficiency.
- Implemented an **efficient matchmaking algorithm** to find quick and accurate matches.

Achievements

- Attained all India rank **81 in ICPC Prelims 2024**, qualified for ICPC Regionals.
- Solved over **1000+ algorithmic coding problems** on various coding platforms.
- Max rated **1890, attained title Knight on leetcode** in 5 contests.
- Attained Global rank **1510 Div-2**, **1797 Div-3**, **1061 Div-4** on **codeforces** contests.
- Max ranked as **specialist (rated 1531) on codeforces**.
- Solved **250+ DSA problems on leetcode**.
- Contributed to the **Zulip open-source project with 10+ PRs**.

Skills

Languages: C/C++, Go, JavaScript, TypeScript, Python, Bash, HTML/CSS
Technologies/Frameworks: GCP (Google Cloud Platform), Protobufs, gRPC, Next.js, React.js, Express.js, Pygame, Tailwind CSS, Linux, Git, Docker
Soft Skills: Communication, Teamwork, Leadership, Problem-Solving, Creativity
Academic Coursework: Data Structures and Algorithms, Database Management System, Operating Systems, Computer Networking, Object Oriented Programming.

Leadership / Extracurricular

- **Overall Coordinator of Axios (Technical Club)** : Led the club's activities, organized technical events, and conducted coding competitions and onboarding sessions for new members.
- **Senior Member of FOSS Wing (Axios - Technical Club)** : Mentored newcomers in open-source contributions; organized the FOSS Weekend event and successfully merged 30+ participant pull requests into real projects.