

KUNAL BHATIA

 mails.kunalbhatia@gmail.com  [Kunalbhatia2601](https://www.linkedin.com/in/Kunalbhatia2601)  [Kunalbhatia2601](https://github.com/Kunalbhatia2601)  [+91 82848-34841](tel:+918284834841)

Education

Chitkara University <i>Bachelor of Engineering - Computer Science and Engineering, CGPA: 8.15</i>	2023 – Present <i>Rajpura, Punjab</i>
Sacred Heart Convent School <i>High School</i>	2021 – 2023 <i>Bathinda, Punjab</i>

Experience

CodeFlixLabs Private Limited <i>Founder & Full-Stack Engineer</i>	Feb 2025 – Present codeflixlabs.com
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- Developed a scalable AI-powered coding practice platform with automated test execution and real-time code evaluation.
- Built containerized code runners using **Docker** to safely execute user submissions across multiple languages.
- Integrated **Redis**-based caching and queueing to manage workloads and reduce latency under concurrent usage.
- Architected backend services using Node.js and MongoDB, supporting **3,400+ active users** with consistent uptime and performance.

Open Source Chandigarh	Sep 2024 – Aug 2025
<i>Technical Lead</i>	<i>Onsite</i>

- Provided technical direction to a student-led open source community, reviewing contributions and guiding implementation decisions.
- Mentored contributors on Git workflows, code quality, and scalable application design while aligning projects with university objectives.

Projects

CodeFlixLabs - Empowering Practical Learning	NextJS, Shell, Docker codeflixlabs.com
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- Developed a hands-on coding platform featuring containerized code execution, auto-evaluation, and test runners.
- Implemented Docker-based sandboxing to securely execute untrusted code submissions at scale.
- Used Redis for execution queue management and caching results to improve throughput and system responsiveness.
- Served over **3,400+ active users**, primarily from university-level computer science programs.

Fleetik – AI-Driven Social Media Publishing	NextJS, MixPanel, Data Analytics Fleetik.com
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- Building an AI-driven social media publishing platform that optimizes post timing using audience engagement patterns
- Analyzed historical post performance and real-time interaction signals to maximize reach and engagement
- Implementing intelligent scheduling logic to prevent over-posting and content fatigue
- Designed for creators and startups seeking data-driven posting without enterprise-level complexity

See more projects at kunalbhatia.dev

Technical Skills

Web Development: JavaScript, TypeScript, React.js, Next.js, Node.js, Express.js, JQuery, ShadCN, Firebase, Cloudinary, Clerk, Inngest, MixPanel

App Development: React Native, Expo

Languages: C/C++, Python

Databases/ORM: MySQL, MongoDB, PostgreSQL, SupaBase, Prisma

Cloud/Deployment: GCP, AWS EC2, AWS S3, KVMs, Docker, Netlify, Vercel, Git, Github, Github Actions

Honors and Awards

- Achieved publication of **Three IEEE Xplore-indexed** conference papers in Cybersecurity and IoT. ([Link](#))
- Winner of **Tech Abhivyakti 2.0 Hackathon** at Chitkara University, Punjab (03/2024 - 04/2024)
- Best Sustainability Project at **Hack4Sustainability Hackathon** at Thapar University, Punjab (11/2023 - 11/2023)
- Served as a Mentor at **HackVault Hackathon**, guiding participants in ideation, technical implementation, and project presentation (10/2025)