

Aastha Bhatia

Software Engineer | Full Stack Developer | AI Enthusiast

+91-9878793240

Mohali, India

LeetCode

in aasthabhatia-er

aasthabhatia.er@gmail.com

Aastha-Bhatia

Summary

Software Engineer and Full Stack Developer with experience building scalable web applications, multi-threaded Java systems, and Python scripting. Skilled in REST APIs, JSON workflows, secure coding, and Git collaboration. IEEE-published AI researcher adaptable to Linux environments, with a keen interest in automated CI/CD deployments, unit testing, and operational monitoring.

Projects

PingQuantumly | [GitHub](#) | [Desktop Build](#)

Java, Sockets, Multithreading, Asynchronous I/O

- Built a real-time network benchmarking tool evaluating latency, jitter, and throughput metrics.
- Engineered an asynchronous Java thread pool, optimizing background job processing and preventing UI freezes.
- Parsed low-level socket streams and network layers to compute packet stats and structured configurations.

EXE-lent Games | [GitHub](#) | [Live Demo](#)

React, Unity WebGL, Java Swing, AWT

- Built a centralized web platform hosting 5+ interactive games, driving 400+ plays and 20+ desktop downloads.
- Integrated Unity WebGL builds within a modern web layout to deliver zero-install browser gameplay.
- Engineered desktop applications using Java Swing/AWT and packaged standalone executable JAR binaries.

K72-Inspired Web Experience | [GitHub](#) | [Live Demo](#)

React.js, GSAP, ScrollTrigger, Vite, Tailwind CSS

- Built an Awwwards-style interactive web application using React.js and Vite architecture.
- Implemented smooth UI motion design and kinetic data transitions using GSAP and ScrollTrigger.
- Engineered responsive layouts with Tailwind CSS, ensuring visual fidelity across structured screen states.

Technical Skills

Programming Languages

Python, Java, C++, C, JavaScript

Web, APIs & Architecture

REST APIs, JSON, React.js, Node.js, Unit Testing, Secure Coding

DevOps & Environments

Linux, Git, GitHub, Docker, CI/CD, Automation Frameworks

Databases & BI Tools

SQL, MongoDB, Tableau, Power BI, Postman, Figma

Education

Bachelor of Engineering (B.E.) in Computer Science

Chitkara Institute of Engineering & Technology

Cumulative Grade Point Average (CGPA): 8.33 / 10.0

Punjab, India

2022 – 2026

Achievements & Research

AI Data Research (IEEE)

Co-authored paper on Emotion Recognition ([IEEE Xplore](#)). Utilized Python for data processing, dataset analysis, and visualizing model outputs, aligning with enterprise BI workflows.

Problem Solving Coding Contests

Solved 400+ algorithmic challenges across LeetCode, GFG, and other platforms.
1st: IEEE Code Slam ('24) & Coding Ninjas ('23). 3rd: ACM Hour of Code ('23).

Leadership & Involvement

Technical Executive | Coding Blocks, CUIET Chapter

Chitkara University

Mar 2023 – Nov 2024

- Mentored 500+ student developers, effectively communicating complex technical concepts and driving continuous improvement through algorithmic challenges and hackathons.