

# Harsh Priye

Software Developer

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## Work Experience

### Tata Consultancy Services (TCS)

1 year 3 months

#### • Software Engineer

(Jul 2024 – Present)

- Developed secure, scalable APIs for a Forex payments app using Spring-Boot, enabling 1.5 times faster delivery.
- Enhanced API efficiency by 40% via aggregation, query refactoring, pagination, and caching.
- Implemented frontend features for a Forex app, enhancing UX and performance in a 6-member team.
- Boosted frontend performance by 20% using lazy loading, state optimization, and improved design patterns.

**Tech Stack:** Java, Spring Boot, Microservices, JavaScript, React.js, Lit Element, Git, Azure

### AulaCube Technologies

4 months

#### • Software Development Intern

(Mar 2024 – Jun 2024)

- Built an admin dashboard for student data, improving readability, management, and client satisfaction by 40%.
- Fixed 30+ unresponsive UI issues on the AulaEdge website for small-screen devices.
- Introduced Tailwind CSS to the existing code base for faster and responsive styling.

**Tech Stack:** Typescript, React.js, Ant Design, Chart.js, Git.

## Education

### B.Tech - Computer Science (Mathematics and Computing)

CGPA: 7.63

Netaji Subhas University of Technology (NSUT), New Delhi

(2020 – 2024)

### AISSCE (CBSE Class 12)

Score: 87%

Vishwa Bharati Public School, New Delhi

(2019 – 2020)

## Projects

### Codeboxes - Online Code Editor

(Java, SpringBoot, Microservices, IPC, MongoDB, Redis, JWT, Next.js, Tailwind CSS, Docker, Github Actions)

- Developed a full-stack online code editor which supports 6+ major programming languages.
- Create REST CRUD APIs using Spring Boot (maintaining REST Maturity Model Level 2), and Configured Spring Security for JWT based authentication and Authorization.
- Built a code-execution service with Bash & Docker, that communicates with the server via IPC (ProcessBuilder). Removed dependency on any 3rd party API for code execution entirely (Increased code execution limit to infinity).
- Switched to microservice architecture separating User+Auth and Code execution services, improving code execution API availability by 100% compared to monolith.
- Developed frontend with Next.js & Tailwind, integrating Shadcn UI and Aceternity UI, boosting DAU by 20%.
- Implemented CI/CD pipeline using Docker and Github Actions for 5x faster deployments, compared to manual.

**Source:** github.com/harshpx/Codeboxes , github.com/harshpx/codeboxes-server

**Web url:** https://www.codeboxes.in

### Mini Tic-Tac-Toe - Online multiplayer tic-tac-toe game

(Socket.io, Express.js, Node.js, React.js, Tailwind CSS)

- Structured a bi-directional WebSocket server using Socket.io, to achieve low-latency, real-time communication. (90% faster and less bandwidth usage than constant HTTP polling)
- Designed a robust lobby management and scoring system (Only 2 person per lobby, with rematch options).
- Also implemented in-game chat using parallel socket connection between both players. Helped gain users by 40%.

**Source:** github.com/harshpx/tic-tac-toe-socket **Web url:** mini-tic-tac-toe.vercel.app

### Dog Breed Identifier

(AI, Machine Learning, Python, Tensorflow, Java, Spring-Boot, TypeScript, Svelte, Sveltekit, Tailwind)

- Built a CNN image classifier achieving 95%+ accuracy in classifying dog breeds using Python and TensorFlow.
- Served the trained model in a Spring-Boot server to use it as an API.
- Migrated from React.js to Svelte for frontend, gaining approx 60% faster load times and 90% smaller bundle size.

**Source:** github.com/harshpx/dbi-client, github.com/harshpx/dbi-server

**Web url:** dog-breed-identifier-client.vercel.app

## Technical Skills / Tech Stack

**Languages:** Java, JavaScript, Typescript, Bash, SQL, YAML, HTML, CSS

**Frameworks, Libraries & tools:**

Spring-Boot, Node.js, Express.js, Redis, STOMP, Socket.io, Kafka, MongoDB, MySQL, PostgreSQL, Docker, Nginx, Github actions, Git, Linux, React.js, Next.js, Svelte, React-Native, Tailwind.