

Harsh Priye

Software Developer

Work Experience

Tata Consultancy Services (TCS)

1 year 6 months
(Jul 2024 – Present)

- Software Engineer
 - Developed entire frontend of a Forex payments app, enhancing its UX and performance in a 5-member team.
 - Developed an internal tool to parse and compare COBOL strings, reducing debugging time by 80%.
 - Optimized frontend performance by 20% through reducing API calls & preventing unnecessary full-page re-renders
 - Implemented memoized recursive functions to efficiently visualize and modify XML data.
 - Refactored the entire transaction visualization journey by modularizing rendering logic, eliminating redundant code and reducing codebase size by 10,000 lines.

Tech Stack: JavaScript, Lit Framework, Git, Azure, Java, Spring Boot

AulaCube Technologies

4 months
(Mar 2024 – Jun 2024)

- Software Development Intern
 - Built an admin dashboard for student data, improving readability, management, and client satisfaction by 40%.
 - Fixed 30+ irresponsive 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
(2020 – 2024)

Netaji Subhas University of Technology (NSUT), New Delhi

AISSCE (CBSE Class 12)

Score: 87%
(2019 – 2020)

Vishwa Bharati Public School, New Delhi

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, Sveltekit, React-Native, Tailwind.
Soft skills: Problem-Solving, Attention to detail, Collaboration, Communication, Adaptability, Ownership, Time management, Continuous learning.