

HARSH TANK

☎ 438-921-9573 ✉ harshptank2212@gmail.com [in linkedin/harsh](https://www.linkedin.com/in/harsh) [github/harsh](https://github.com/harsh) portfolio.app/harsh

Education

Concordia University

Master's in Computer Science

September 2023 – May 2025

Montreal, Canada

LDRP Institute of Technology and Research

Bachelor's in Computer Engineering

August 2018 – May 2022

Gandhinagar, India

Relevant Coursework

- Data Structures
- Algorithm Design
- Artificial Intelligence
- Distributed Systems

Experience

Shipd

Software Engineer

April 2024 – Present

Remote, Canada

- Implemented optimized **C++** and **Python** algorithms, reducing **20%** of computational latency for LLM-based generative developer tools .
- Created responsive UI pages using **React** and **TypeScript**, implemented lazy loading to save **300 ms** on initial rendering time.
- Designed complex **SQL** schemas and relationships to minimize the number of database fetch queries

TatvaSoft

Software Engineer

July 2022 – July 2023

Ahmedabad, India

- Integrated 3rd party **payment gateway APIs** like **Shopify**, **Stripe**, **Lightspeed**, **Clover**, and **Square**.
- Optimized resource-intensive code and join queries through **Sequelize ORM** reducing API response time by **30%**.
- Automated Firebase push notifications for **3000** users, delivering **10,000** messages daily, implemented using webhooks.
- Reduced **50%** of build time by automating app development and testing stages using **CI/CD** pipeline with **Docker**.

TatvaSoft

Software Engineer Intern

January 2022 – June 2022

Ahmedabad, India

- Build Node.js **cronjob** to automate database backups and subscription reminders, slashing manual efforts by **66%**.
- Enhanced data security on **Google Cloud Platform** by updating bucket access rights with precise IAM policies.
- Collaborated with team members using **Git** and **Bitbucket**, to facilitate code organization and task delegation.
- Improved developer experience by visually documenting **RESTful APIs** with **SwaggerUI**

Projects

Anonymous Social Media App | *Next.js, React, Shadcn, MongoDB* (Github Link)

May 2024

- Build a **full-stack Next.js** application enabling users to receive questions from anonymous senders.
- Implemented **Next-Auth** using **Github**, **Google** and Credential as Providers and used **resend** for verification emails.
- Integrated **OpenAI's API** for generating suggestions based on queries and previous responses.

HelperLand | *Node.js, Express.js, PostgreSQL, TypeScript* (Github Link)

January 2022

- Developed a household cleaning service web app, to map service providers to customers using area postal code.
- Implemented email notification service using **Nodemailer** and added Two-factor using **OTP** for OAuth Registration.
- Utilized **SonarQube** to eliminate CodeSmells, resulting in a reduction of **4%** of redundant source lines of code.

Technical Skills

Languages: C++, JavaScript, TypeScript, Python, Java

Frameworks: Next.js, React, Angular, Redux, Recoil, Node.js, Express, GraphQL, Flask, TailwindCSS, Shadcn

Tools and Databases: Git, Docker, Kubernetes, SonarQube, Postman, PostgreSQL, MongoDB

Leadership / Achievements

- **Specialist** at Codeforces with max rating **1457**. ranking in the **top 7%** of profiles. (**Profile Link**)
- Led the team in the **Student Startup and Innovation Policy Hackathon**.
- Recognized as an **ACM-ICPC Regionalist** 2020-21.
- Secured a **Global Rank of 1478** out of **32000+** participants in Codeforces Round 929.