HARSH TANK

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Education

Concordia University   **September 2023 – May 2025**
Master of Applied Computer Science   *Montreal, Canada*

LDRP Institute of Technology and Research   **August 2018 – May 2022**
Bachelor of Engineering in Computer Engineering   *Gandhinagar, India*

Experience

TatvaSoft   **July 2022 – June 2023**
Software Engineer   *Ahmedabad, India*

- Integrated multiple solutions with 3rd party **payment gateway APIs** like **Stripe**, **Shopify**, **Lightspeed**, **Clover**, and **Square**, and relayed automated notifications with **webhooks**.
- Added Firebase push notification service using FCM token for **IOS** and **Android** Application Setup, allowing clients to receive notifications, serving over **10,000** messages to a user base of **3,000**.
- Optimized resource-intensive code and join queries using **Sequelize ORM**, culminating in a notable **30%** reduction in API response time retrieval from servers.
- Refactored the existing class-based component architecture code in **React**, written in JavaScript, to function-based components using **TypeScript**, ensuring type safety and improved readability.
- Implemented **Firebase OAuth2** for client authentication, bolstering user security and safeguarding credentials.

TatvaSoft   **January 2022 – June 2022**
Software Engineer Intern   *Ahmedabad, India*

- Developed a **Node.js cronjob** to automate database backups and deliver customer subscription reminders, reducing manual data handling efforts by **50%** and saving **10** working hours per week.
- Migrated existing web application deployment to **Docker**, utilizing **CI/CD** pipelines to automate building, linting, and formatting processes, resulting in a **20%** boost in build efficiency.
- Updated **Google Cloud Platform (GCP)** bucket's access rights to enhance data security using **Identity and Access Management (IAM)** tool, utilizing precise grant policies.
- Collaborated with team members using **Git** and **Bitbucket**, to facilitate code organization and task delegation.

Projects

HelperLand | *React.js, Express.js, Node.js, PostgreSQL, TypeScript*   **January 2022**

- Developed **full-stack** 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 authentication for user registration and OAuth login by sending **OTP**.
- Utilized Swagger UI to document RESTful APIs, enhancing client-side interaction.

Image Search Engine | *Python, Flask, PIL, Keras, VGG-16*   **April 2021**

- Created a **Content-Based Image Retrieval** search engine that returns the search results based on **Euclidean distance** calculations using a feature extractor.
- Leveraged a **Convolutional Neural Network** to extract insights from dataset to generate output images based on RGB color schemes, gradients, and curves with over **97%** algorithmic accuracy.

Technical Skills

Languages: C++, Java, Python, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks: GraphQL, Next.js, React.js, Angular, Node.js, Express.js, Socket.IO, Flask, Tailwind, Bootstrap, jQuery
Tools and Technologies: Docker, Kubernetes, PostgreSQL, MongoDB, SonarQube, Git, Jira/Scrum, Postman, JUnit

Leadership / Achievements

- Led the team in the **Student Startup and Innovation Policy** Hackathon.
- Recognized as an **ACM-ICPC Regionalist** 2020-21, the most prestigious programming competition globally.
- **CodeForces**: Specialist Badge with max rating 1405. Placed among the **top 8%** of active user profiles
- **CodeChef**: 4-Star rated coder with max rating with max rating 1808
- Secured global rank **1507** out of **32000+** participants in Codeforces Round 929.