

HARSH TANK

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Education

Concordia University

Master of Applied Computer Science

September 2023 – May 2025

Montreal, Canada

LDRP Institute of Technology and Research

Bachelor of Engineering in Computer Engineering

August 2018 – May 2022

Gandhinagar, India

Relevant Coursework

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

Experience

Datacurve

Contract Software Engineer

April 2024 – Present

Remote, Canada

- Provided precise and highly curated training data for **LLMs** to build better **generative** developer tools.
- Developed **SQL** schemas and relations, troubleshooted **React** and **Tailwind** UI issues, and provided solutions for data-driven **ML models**.

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 **Docker** and **CI/CD** pipeline.

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**, enhancing UI interaction.

Projects

Satellite Image Classification | *Pytorch, OpenCV, Sklearn, Seaborn* (Github Link)

April 2024

- Built a high-precision satellite image classifier achieving **98.6%** accuracy using **65,000** images across **60** classes.
- Implemented transfer learning with **ResNet18**, **MobileNetV2**, and **VGG16** architectures, utilizing ADAM, RMSProp, and SGD optimizers to minimize loss function with adaptive learning rate.
- Visualized CNN model performance and data exploration through **TSNE** and confusion matrices while tuning hyperparameters.

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

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 **SonarQube** to eliminate CodeSmells, resulting in a reduction of **4%** of redundant source lines of code.

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, GitHub Actions, Jira/Scrum, Postman, JUnit, Maven

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 **1456**. Ranked in the **top 7%** of user profiles. (**Profile Link**)
- Secured global rank **1478** out of **32000+** participants in Codeforces Round 929.