

# DEEPAM DIBYAJYOT

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🌐 [deepamdibyajyot.me](https://deepamdibyajyot.me)

## TECHNICAL SKILLS

**Languages:** JavaScript, SQL, Python, C/C++, Racket

**Frameworks/Libraries:** Pandas, NumPy, Scikit-Learn, Pytorch, Svelte, React.js, Node.js, Next.js, Bootstrap, Flask

**Developer Tools:** Postman, MySQL, PostgreSQL, SQLAlchemy, MongoDB, Git Bash, SoapUI, MuleSoft

## EXPERIENCE

### Software Developer Intern

May 2022 – August 2022

CAA Club Group

Thornhill, ON

- Built the employee support portal on **Next.js** and **MaterialUI**, supporting an userbase of ~4500 employees.
- Optimized page load times by utilizing **NextJS** server-side rendering and code splitting.
- Led the real-time emergency deployment portal, leading to **225%** faster response time to road emergencies.
- Integrated the vendor management system with support portal, simplifying access and reducing operational costs by **55%**.
- Created and employed REST APIs in **MuleSoft/SoapUI** for security audits, dynamic update of user info and database communication.

### Computer Vision Developer

July 2022 – Present

Waterloo Aerial Robotics Group

Waterloo, ON

- Engineering an autonomous UAV to compete in various international UAS student competitions
- Implemented a **CIFAR-10** classifier using a **PyTorch** convolutional neural network (**84%** accuracy)
- Working on 3D Vision Research Team to analyse and plan the path for the drone to work autonomously.

### CS Representative

January 2022 – April 2022

MathSoc

Waterloo, ON

- Elected as representative for CS students to help address issues at a faculty level.
- Helped script and push resolution for ending mandatory work-term reports and introducing replacements.
- Aided in final blueprint for the construction of new Math building.

## PROJECTS

### Portfolio Website 🌐 | Svelte, JavaScript

- Created portfolio website for displaying projects, experiences and connecting with more people.
- Used **Svelte** and tsParticles, utilising intrinsic Svelte components for overall design/working of the website.
- Wrote algorithm to generate **randomised star grid mesh** background pattern and animated SVG for website background.

### PriceMatch 🌐 | React, Flask, Firebase, Python, Google CloudVision, PostgreSQL, TensorFlow

- Developed a web-app which compares grocery prices across stores using **Firebase** and **ReactJS**.
- Leveraged **Google CloudVision**, **Scikit-Image** and **TensorFlow** to recognize products at a **92% accuracy**.
- Programmed **Flask REST API** handling transactions between Firebase, Google Cloud and React.

### EDeasy 🌐 | React, Flask, SQLite, SQLAlchemy, Python

- Developed web-app providing free open source educational resources targeted at specific grade groups.
- Utilized **React.js** to create responsive UI and built **Flask REST API** which reduced processing times by **25%**.
- Won **2nd prize** at **DefHacks Worldwide 3.0 Hackathon** out of 1000+ participants.

## EDUCATION

### University of Waterloo

Candidate for BCS in Computer Science

Waterloo, ON

Sept. 2021 – May. 2026