

DEEPAM DIBYAJYOT

✉ ddibyajyot@uwaterloo.ca | [in www.linkedin.com/deepam](https://www.linkedin.com/deepam) | github.com/DDibyajyot
🌐 deepamdibyajyot.me

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C/C++, Racket, Bash, HTML/CSS

Frameworks/Libraries: Svelte, React.js, Node.js, Next.js, D3.js, Pandas, NumPy, Scikit-Learn, Pytorch

Developer Tools: Postman, MySQL, PostgreSQL, SQLAlchemy, MongoDB, Git Bash, GitLab, Jira, Asana, Figma

EXPERIENCE

Full Stack Developer

Jan 2023 – Apr 2023

XE.com

Newmarket, ON

- Overhauled Public Transfer pages by migrating PHP pages to Next.js, increasing performance by **37%** and serving over **1.6+ billion** annual visits.
- Visualized real-time currency chart by deploying custom **D3.js** components, increasing engagement by **35%**.
- Engineered high-value lead generation form with autofill system using spaCy, driving a **23%** revenue increase.
- Revamped the sitemap architecture, employed XML separation yielding **15%** increase in SEO optimizations.
- Created destination pages with Contentful CMS, GraphQL and AWS, leading to **45%** increase in money transfers in popular corridors.

Software Developer

May 2022 – Aug 2022

CAA Club Group

Thornhill, ON

- Implemented the employee portal on **Next.js** and **MaterialUI**, supporting an userbase of 4500+ employees.
- Created REST APIs in **MuleSoft/SoapUI** and **Axios** for security audits, dynamic update of user info and database communication.
- Developed real-time deployment portal, resulting in **225%** faster response time to road-side emergencies.

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)

PROJECTS

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**.
- Processed user and image data using **PostgreSQL** and set up user authentication using **Google OAuth**.
- Programmed **Flask REST API** handling transactions between Firebase, Google Cloud and React.

EDeasys 🌐 | *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.

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.

Mentify 🌐 | *React, CSS, Scikit-Learn, Firebase*

- Developed a web-app that uses a machine learning algorithm to match mentees to mentors.
- Built the pairwise comparison recommendation algorithm using **SciKit-Learn** and **Pandas**

EDUCATION

University of Waterloo

Candidate for BCS in Computer Science

Waterloo, ON

Sept. 2021 – May. 2026