# HIMANK DAVE

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#### Education

#### University of Waterloo

Waterloo, CA

Bachelor of Mathematics, Honours (Co-op)

2022 - Present

- Major: Computational Mathematics
- Coursework: Functional Programming, Imperative Programming, Object-Oriented Programming, Tools and Techniques for Software Development, Data Structures and Algorithms

#### Experience

Software Developer Intern

May 2024 - Present

**Cactus Creatives** 

Remote

Software Developer Intern

May - Aug 2023

**Cactus Creatives** 

Ahmedabad, IN

- Wrote Python script to parse and migrate 25k+ records from **MySQL** to **PostgreSQL** databases, optimizing raw SQL queries in existing client codebase.
- Analyzed large product usage datasets through linear/logistic regression and outlier detection and gave insights, leading to over 25% client savings and a 10% client revenue increase.
- Developed and maintained full-stack CMS in **HTMX** and **Django**, displaying real-time metrics.

## **Projects**

Trivivo 🗘 | HTML5/CSS3, Django, MySQL, REST Framework, AWS

- Built frontend using HTML/CSS/jQuery, backend with **Django** and **MySQL**, while offering **RESTful API** for admin operations and deployed to **AWS EC2** instance.
- Crafted interactive admin dashboard with real-time metrics, CRUD operations and detailed logs, optimizing game management by 45%.

SpectraSVD • NumPy, OpenCV, Pillow, Streamlit

- Wrote image compression algorithm using low-rank approximation with 25%+ size reduction.
- Employed OpenCV and Pillow for generating videos of image compression algorithm.
- Deployed an interactive webapp using **Streamlit**, allowing users to observe its impact on image quality and compression rate in real time.

EcoWiz 🗘 | React, Flask

- Created a full-stack classification app with **React** frontend and **Flask** backend.
- Developed multimodal image classification model via ResNet-50 CNN and YOLOv8, for classifying garbage with 80% accuracy.

RedWish  $\bigcirc$  | Firebase, GCP, HTML5/CSS3, JavaScript

- Developed a full-stack health app to democratize blood donation and transfusion accessibility.
- Built frontend with HTML, CSS, Bootstrap, and jQuery, and backend with Firebase.
- Utilized **DialogFlow API** to craft a chatbot for customers, enhancing user engagement.

### Technical Skills

Languages: Python, C/C++, SQL, R, JavaScript, HTML5/CSS3, HTMX

Frameworks: Django, REST Framework, Flask, React, jQuery

Libraries: Pandas, Matplotlib, Plotly, NumPy, OpenCV

Tools: Git, Linux, Bash, Powershell, Postman, GCP, AWS, Jira