

Himank Dave

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EDUCATION

University of Waterloo

Waterloo, CA

Bachelor of Mathematics, Honours Co-op

2027

- Coursework: Functional Programming, Algorithm Design and Data Abstraction, Tools and Techniques for Software Development, Object-Oriented Programming (C++)

EXPERIENCE

Python Developer Intern

May 2023 – Aug 2023

Cactus Creatives Pvt. Ltd

Ahmedabad, IN

- Streamlined database queries in **PostgreSQL** via ORMs, while improving database schema.
- Analyzed large client datasets through **linear/logistic regression** and **outlier detection**, leading to over **25%** client savings and a **10%** client revenue increase.
- Implemented **REST APIs** with **Flask** and **REST Framework** in production with 750+ requests/day.
- Developed and maintained full-stack web applications in **HTMX**, **Django** and **REST Framework**.

PROJECTS

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

- Implemented *Who Wants to be a Millionaire* clone from scratch, deployed it to AWS EC2 instance.
- Built a responsive frontend using **HTML5/CSS3**, **Bootstrap** and **jQuery**, seamlessly integrated with **Django** and **MySQL** backend, while offering **RESTful API** for admin operations.
- 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 demonstrating 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 app classifying garbage based on organic, trash, or recyclable criteria.
- Developed frontend with **React** and backend with **Flask** for access to waste classification model.
- Developed **multimodal image classification model** via **ResNet-50 CNN** and **YOLOv8**, for classifying garbage with 80% accuracy.

RedWish | Firebase, GCP, HTML5/CSS3, JavaScript

- Designed and developed a website connecting donors, recipients, and blood banks.
- Built frontend with **HTML5/CSS3**, **Bootstrap**, and **jQuery**, and backend with **Firebase**.
- Utilized Google **DialogFlow** for a conversational AI chatbot, 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