HIMANK DAVE

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Education

University of Waterloo

Waterloo, CA

Bachelor of Mathematics, Honours Co-op

2027

• <u>Coursework:</u> 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 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 $\Omega \mid React, Flask$

- 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 O | 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