Himank Dave

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TECHNICAL SKILLS

Languages: Python, C/C++, SQL, R, JavaScript, HTML5/CSS3, HTMX
Frameworks/Libraries: Django, REST Framework, Flask, Pandas, Matplotlib, Plotly, NumPy, OpenCV, Pillow, jQuery, Bootstrap
Tools: Git, Linux, Bash, Powershell, Postman, GCP, Firebase, AWS, Jira

EDUCATION

University of Waterloo   Waterloo, CA
Bachelor of Mathematics, Honours Co-op   *Sept 2022 – Apr 2027*
- Relevant Coursework: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Tools and Techniques for Software Development, Object-Oriented Software Development

EXPERIENCE

Python Developer Intern   May 2023 – Aug 2023
Cactus Creatives Pvt. Ltd   *Ahmedabad, IN*
- Developed and maintained full-stack web applications using **HTMX**, **Django** and **REST Framework**.
- Utilized **Django ORM** to streamline database interactions in **MySQL**, improving database schema, while ensuring data integrity.
- Implemented **RESTful API**s with **Flask** and REST Framework, ensuring seamless backend and frontend integration in production.
- Analyzed large client datasets through statistical methods and informing business decisions, leading to over 25% savings in client operating cost and a 10% increase in client revenue.

Volunteer & Workshop Supervisor   Sept 2022
Hack The North   *Waterloo, CA*
- Provided technical support and coordinated 2 workshops, ensuring smooth operation of workshop activities at Canada's largest hackathon.
- Facilitated **prompt communication** between workshop leaders and stakeholders, allowing for effective **issue resolution** and 100% success in meeting timetable targets.

PROJECTS

Who Wants to be a Millionaire Clone | *Django, MySQL, Django REST Framework*
- Created a "Who Wants to be a Millionaire" clone, integrating *lifelines*, progressive *difficulty levels* and *countdowns* using **HTML5/CSS3**, **Django** and **MySQL**.
- Designed a comprehensive **admin dashboard** with real-time analytics and logging, facilitating *CRUD operations* for questions and categories.
- Developed a secure **RESTful API** with ***token-based authentication***, supporting random question retrieval and secure question addition.

Chess | *C++*
- Developed a fully-featured CLI chess program in C++ while adhering to **object-oriented programming** principles.
- Implemented game logic, move validation, and checkmate detection using **polymorphism** and **inheritance**.
- Established testing routines and driver code to ensure proper functionality of program.

TrendWatch | *Python, AlphaVantage API*
- Engineered an app enabling BSE ticker and cryptocurrency searches, generating interactive trend graphs.
- Integrated **AlphaVantage REST API** to retrieve historical stock and cryptocurrency data dynamically, while utilizing **pandas** and **matplotlib** for interactive graphs.
- Implemented a *cross-compatible* GUI with **tkinter**, ensuring seamless usage on Windows and Linux.

RedWish | *Firebase, GCP, HTML5/CSS3, JavaScript*
- Designed and developed a website connecting donors, recipients, and blood banks, thus streamlining blood donation and transfusion.
- Utilized **HTML5/CSS3**, and **JavaScript**, along with Bootstrap and jQuery.
- Leveraged Google **Firebase** for backend database management and real-time updates, while implementing Google **DialogFlow** for a conversational AI chatbot.