Akash Verma
Software Engineer

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Education

Shri Shankaracharya Institute of Professional Management and Technology June 2019 — August 2023
Bachelor of Technology, Computer Science and Engineering —— GPA 3.4/4.0 Chhattisgarh, India

Work Experience

Google Summer of Code Student Developer May 2022 — September 2022
OpenAstronomy @ SunPy Remote

- Developed the "hvpy" library, a Python API wrapper used by 600+ students and researchers to access the Helioviewer server.
- Implemented 16 endpoints and utility functions, utilizing advanced Python libraries and techniques to improve usability and performance. Demonstrated expertise in backend development, API design, and data analysis in a scientific context.

Software Engineer, Intern December 2021 — February 2022
Feldroy Dallas TX, United States

- Engineered a Python script that drastically improves the efficiency and accuracy of book compilation, reducing manual work by 98%. Automated the process of compiling books written in Google Docs and rendering them as PDF and ePub, using advanced Python libraries and techniques.
- Developed an MVP Electron.js app that automatically corrects grammatical errors in voice typing and summarizes the text using GPT3 API, providing improved accessibility for individuals with hand impairments and improving voice-to-text accuracy on social media chats.
- Collaborated with Audrey Roy Greenfeld and Daniel Roy Greenfeld, authors of the popular book "Two Scoops of Django", to compile their latest work "A Wedge of Django", gaining valuable experience and insights into the publishing industry through hands-on participation in the book's creation and production.

Open-Source Contributions

SunPy — Solar data analysis environment for Python *See contributions*

- Created a script for the SunPy core team. The script automates the process of updating vendor code and reduces the time consumed in manual work by 5 seconds.

Margarita Humanitarian Foundation *Visit project source*

- The project, called "Helpmespeak", aims to summarize and improve long voice dictation input and fix grammatical errors during voice typing. It reduces text length by 20%.

Projects

Portfolio Website *Visit site*

- Extracted GitHub repository data by making an HTTP request, and rendering down in the site with authenticated REST API endpoints; thus reducing the cost to host a database from $9/month (Heroku basic) to $0.

Skills

Languages : Python, JavaScript, C++, C
Frameworks & Libraries: Node.js, Express.js, React.js, Next.js, Tailwind CSS, Google Cloud Console, Jupyter Notebook
Misc : Linux, Docker, Git, Kaggle, unit-testing, Restful API, Data structures & Algorithms, HTML/CSS, SQLite3, SQL, MongoDB, Figma wire-frame prototyping

Achievements

- Recommended by Daniel Garcia Briseno - Senior Software Engineer @ NASA
- Got recommendation by the authors of the renowned book **Two Scoops of Django**
- GSoC'22 documentation blog published by openastronomy.org