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# Akash Verma

## Software Engineer

linkedin.com/in/akash5100  
github.com/akash5100  
akashverma.vercel.app

### Education

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**Shri Shankaracharya Institute of Professional Management and Technology**  
*Bachelor of Technology, Computer Science and Engineering — GPA 3.4/4.0*

June 2019 — August 2023  
Chhattisgarh, India

### Work Experience

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**Google Summer of Code Student Developer**

May 2022 — September 2022

*OpenAstronomy @ SunPy*

Remote

- Built a library to interact with the Helioviewer server used by **600** students monthly.
- Implemented and brought the support of the **16** API endpoints to serve the solar physicists for research.
- Constructed **16** facade functions for users to enhance the back-end response.

**Software Engineer, Intern**

December 2021 — February 2022

*Feldroy*

Dallas TX, United States

- Engineered a Python script to devise the flow of compiling a book and put it into production decreasing the manual work by **98%**.
- Eliminated the manual work by automating the process of compiling books written in Google Docs and rendering them as PDF and ePub; with 7 CLI functions.
- Interpreted and implemented the application with the following libraries(10+): Typer, PyPdf, Google Drive SDKs, requests, google-auth, tqdm, and reportlab.
- Expanded the basic architecture specified into a working CLI which reduces the lengthy manual work to **1 min**.
- Designed a product that uses artificial intelligence to **improve** the voice recognition and voice-to-text conversion; summarizes 15 seconds reading around 20 percent of any voice input text.
- Worked directly under the mentorship of famous authors **Audrey Roy Greenfeld** and **Daniel Roy Greenfeld**.

### Open-Source Contributions

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

[See contributions](#)

- Created a tool script for SunPy core to automate the process of updating vendor code; reducing the time consumed in manual work by **5 sec**.

**Margarita Humanitarian Foundation**

[Visit project source](#)

- Map out the project and execute it in making a charitable project **Helpmespeak** which summarizes and improves long voice dictation input and fixes the grammatical errors that occur during voice typing; reduces text length by **20%**.

### Projects

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**Portfolio Website**

[Visit site](#)

- Contribute and built 10+ **authenticated** REST API endpoints.
- Extracted repository data by making an HTTP request to GitHub, manipulating the data, and rendering down in the site; thus reducing the cost from **9 USD/month** (Heroku basic) to **0 USD**, to host a database in the cloud.

### Skills

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**Languages** : Python, JavaScript, C++, C

**Frameworks & Libraries**: Node.js, Express.js, React.js, Next.js, TailwindCSS, Google Cloud Console, Jupyter Notebook

**Misc** : Linux, Docker, Git, Kaggle, unit-testing, Restful APIs, Data structures & Algorithms, HTML/CSS, SQLite3, SQL, MongoDB, Figma wire-frame prototyping

### Achievements

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- 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