

Ainesh Sootha

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EDUCATION

Purdue University – GPA: 4.0/4.0

Graduation May 2023

BS, Computer Engineering

West Lafayette, IN

- **Dean's List, Semester Honors**
- EPICS Learning Community
- Data Mine Learning Community (Corporate-Partners Program)

SKILLS

- **Programming:** C++, Python, C, MATLAB/Octave, bash, php, flask, MySQL, HTML/CSS/JS
- **Other Skills:** Full-Stack Software Development, Linux/UNIX, Data Science, Docker, Kafka, Agile-Development

EXPERIENCE

Viasat, Inc.

Aug. 2020 – Present

Software Engineering/ Data Science Intern – Data Mine

W. Lafayette, IN

- Developing an application as part of the Burroughs Project that clones KSQL tables on Kafka stream into standard RDBMS (postgres tables).
- Application will maintain a real-time mirroring link between the KSQL tables and RDBMS links.
- This will include the backend architecture and the complete frontend of the application.

Purdue University

Aug. 2020 – Present

Undergraduate Teaching Assistant - First Year Engineering

W. Lafayette, IN

- Mentoring First-Year-Engineering students to help them excel in the ENGR courses.
- Demonstrating knowledge of MATLAB, Excel by assisting the Engineering Education dept with lessons.

Habitat for Humanity

Jan. 2020 – May. 2020

Software Engineering Design Lead - EPICS

W. Lafayette, IN

- Successfully Developed, Designed and implemented a complete inventory and user management web-app to decrease theft and loss of expensive inventory for Habitat For Humanity Lafayette and EPICS.
- Completed all required development, implementation tasks (Frontend and Backend) within the time-frame of the project.
- App included features like location tracking of items, activity tracking, admin/ non-admin user management system, login system.
- Led a team of students to develop the app, gain regular feedback and add updated features.
- Developed in php, HTML/CSS, JS and MySQL.

Google Code-in

Dec 2017 – Jan 2018

Open-Source Contributor

Remote

- Contributed to different open-source organizations, including FOSSASIA, SCoRE, CCExtractor, Red Hen labs.
- Developed websites, designed logos.

PROJECTS

Recommendation System

Machine Learning/ Data Science/ Software development - Python

- Developed a Book/ Movie recommendation system using ML algorithms / OMDb + GoodReads APIs to find similar items by performing textual analysis. Developed using Python (Flask,pandas).
- Code: <https://github.com/AineshSootha/Recommender>

Image Processing System

Software development / Computer Vision / Computer Science- Python

- Developed Image Processing Algorithms, including grayscale, rotation, blur (without OpenCV functions).
- Code: <https://github.com/AineshSootha/ImageProcessingPython>