

Ainesh Sootha

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EDUCATION

Purdue University

BS, Computer Engineering – 3.72 GPA

Graduation May 2023

West Lafayette, IN

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

SKILLS

- **Programming:** C/C++, Python, MATLAB/Octave, bash, php, flask, MySQL, HTML/CSS/JS (Javascript)
- **Other Skills:** Full-Stack Software Development, Linux/UNIX, Data Science, Docker, Kafka, Agile-Development, Object Oriented Programming, Data Structures and Algorithms, Git

EXPERIENCE

State Street

Software Engineering Intern

Jun 2021 - Present

New York (Remote)

- Working with the BestX dev Team.
- Built a tool (Python) to introduce Source Control using AWS CodeCommit into AWS Lambda functions.

Purdue Data Mine

Software Engineering Research – Viasat, inc

Aug 2020 – May 2021

W. Lafayette, IN

- Project in partnership with Viasat, inc.
- Developed an application to help data scientists perform easier analysis on real time data streams (Kafka) using ksqlDB.
- Architected a complete system for the application to maintain a mirroring link between a real-time data stream and RDBMS tables.
- Researching and Experimenting innovative ideas in Kafka and data-management with a team of students and Viasat Engineers/data scientists.

Purdue Engineering

Undergraduate Teaching Assistant

Aug 2020 – May 2021

W. Lafayette, IN

- Mentored First-Year-Engineering students to help them excel in the ENGR courses (ENGR 131, 132).
- Demonstrated technical knowledge of MATLAB, Excel by assisting the Engineering Education dept with lessons.

Habitat for Humanity

Software Engineering Design Lead - EPICS

Jan 2020 – May 2020

W. Lafayette, IN

- Successfully Developed a complete inventory and user management web-app in php, HTML/CSS, JS and MySQL to decrease theft and loss of expensive inventory for Habitat For Humanity Lafayette and EPICS.
- Introduced features including location tracking, login capabilities, admin authorization, user management.
- Led a team of Computer Engineering students and deployed the final application for Habitat for Humanity Lafayette.

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. Written in Python (Flask,pandas).
- Code: <https://github.com/AineshSootha/Recommender>

Image Processing System

Software development / Computer Vision / Computer Science- Python

- Code: <https://github.com/AineshSootha/ImageProcessingPython>

RELEVANT COURSES

- Advanced C Programming, Data Science in Python, Data Structures, Software Engineering tools