

Ainesh Sootha

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EDUCATION

Purdue University

2019 - 2023

BS, Computer Engineering – 3.72 GPA

West Lafayette, IN

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

SKILLS

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

EXPERIENCE

Purdue College of Engineering

Aug 2021 – Present

Undergraduate Teaching Assistant – Software Engineering Tools

W. Lafayette, IN

- Working as an Undergraduate TA for ECE 49595 – Software Engineering Tools.
- Mentoring students in Python, SQLite and Bash.

State Street

Jun 2021 – Aug 2021

Software Engineering Intern

New York (Remote)

- Worked with the BestX dev Team at State Street Global Link.
- Built slsmanager (Python, Serverless, AWS CodeCommit/CodeBuild) from scratch to introduce Source Control into AWS Lambda functions with a completely automated pipeline. (ainesh.co/sls)
- Developed software for pdf generation for the BestX TCA web app using puppeteer (NodeJS, Headless chrome)
- Built a test harness for AWS CodeCommit to seamlessly test/build/deploy lambda functions (NodeJS, Jest, Husky,
- Improved log parsing across the stack by refactoring code.

Viasat @ Purdue Data Mine

Aug 2020 – May 2021

Software Engineering Research

W. Lafayette, IN

- Developed an open-source application in partnership with Viasat, inc 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.
- Researched and Experimented innovative ideas in Kafka and data-management with a team of students and Viasat Engineers/data scientists.

Purdue College of Engineering

Aug 2020 – May 2021

Undergraduate Teaching Assistant

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

Jan 2020 – May 2020

Software Engineering Design Lead - EPICS

W. Lafayette, IN

- Spearheaded the development of an 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.

PROJECTS (ainesh.co for more)

Recommendation System

Machine Learning/ Data Science/ Software development - Python

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

RELEVANT COURSES

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