

# Ainesh Sootha

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## EDUCATION

### Purdue University

2019 - 2023

BS, Computer Engineering – 3.69 GPA

West Lafayette, IN

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

## SKILLS

- **Programming:** C++, Python, C, MATLAB/Octave, bash, php, MySQL, HTML, CSS, Javascript, SwiftUI
- **Other Skills:** OpenGL, Maya, Computer Graphics, GPU Programming, Full-Stack Software Development, Linux/UNIX, Docker, Kafka, Data Structures and Algorithms, Git, AWS

## EXPERIENCE

### Amazon Go

May 2022 - Present

Software Dev Engineering Intern

Seattle, WA

- Working with the Tracking team at Amazon Go.

### Purdue College of Engineering

Aug 2021 – Dec 2021

Undergraduate Teaching Assistant – Software Engineering Tools

W. Lafayette, IN

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

### State Street Corp - BestX

Jun 2021 – Aug 2021

Software Engineering Intern

New York (Remote)

- Built slsmanager (Python, Serverless, AWS CodeCommit/CodeBuild) to introduce Source Control into AWS Lambda functions with a completely automated pipeline. ([ainesh.co/sls](https://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)

### 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.

### Purdue College of Engineering

Aug 2020 – May 2021

Undergraduate Teaching Assistant

W. Lafayette, IN

- Assisted First-Year-Engineering students in courses dealing with MATLAB, Excel.

### 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.

## PROJECTS ([ainesh.co](https://ainesh.co) for more)

### Realistic Ocean Simulation

GPU Programming / Computer Graphics – C++, GLSL, OpenGL

- Code: <https://github.com/aineshsootha/realisticoccean>

### Recommendation System

Machine Learning/ Data Science/ Software development - Python

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

## RELEVANT COURSES

- Data Structures, Computer Graphics, Operating Systems Engg., Software Engg. tools, OOP in C++