Ainesh Sootha

aineshsootha@gmail.com ✆ https://ainesh.co ✆ linkedin.com/in/aineshsootha

EDUCATION

Purdue University	**2019 - 2023**
BS, Computer Engineering	*West Lafayette, IN*

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

SKILLS

- **Programming:** C++, Python, ReactJS (and Redux), NodeJS, Java, C, MATLAB/Octave, bash**,** php, MySQL, HTML, CSS, JavaScript, Flask
- **Other Skills:** OpenGL, Computer Graphics, GLSL, Full-Stack Software Development, Databases, Docker

EXPERIENCE

Amazon	**Jul 2023 – Present**
Software Dev Engineer - Just Walk Out Tech	*Seattle, WA*
Amazon	**May 2022 – Aug 2022**
Software Dev Engineering Intern - Just Walk Out Tech	*Seattle, WA*

- Built and delivered a complex trajectory visualization full-stack service for the Customer Identification (Tracking) Team at the Just Walk Out Tech org, reducing store deployment time by 90% (from 2 hours to 15 minutes) using Java, ReactJS, and Python.
- Enhanced the service and added use cases to improve, automate, and speed up internal processes across multiple teams in the JWO org.
- Developed a full-stack service to display key performance indicators from different sources efficiently and deprecated an older KPI viewing service for the Tracking Team. (ReactJS, Java)

Purdue College of Engineering	**Aug 2021 – Dec 2021**
Undergraduate Teaching Assistant – Software Engineering Tools	*W. Lafayette, IN*

- Mentored students as a TA for Software Engineering Tools, a lab course that taught students Python, SQLite, and Bash.

State Street Corp - BestX	**Jun 2021 – Aug 2021**
Software Engineering Intern	*New York (Remote)*

- Implemented a custom Source Control service for AWS Lambda functions using an automated pipeline.
- Developed software for pdf generation for the BestX TCA web reports using puppeteer (NodeJS, Headless chrome)

Viasat @ Purdue Data Mine	**Aug 2020 – May 2021**
Software Engineering Research	*W. Lafayette, IN*

- Developed an open-source app with Viasat, Inc. for data analysis on real-time data streams using ksqlDB and Kafka.

Habitat for Humanity	**Jan 2020 – May 2020**
Software Engineering Lead – EPICS	*W. Lafayette, IN*

- Wrote an inventory and user management web-app in php to decrease theft and loss of expensive inventory for HFH Lafayette with EPICS Purdue.

PROJECTS (ainesh.co for more)

Argus Home Camera Security System - *React, Python*
- Code: https://github.com/adrianchen8662/argus

Realistic Ocean Simulation - *GPU Programming / Computer Graphics – C++, GLSL, OpenGL*
- Code: http://github.com/aineshsootha/realisticocean
- GPU-parallelized generation of realistic Ocean Waves using GLSL compute shaders based on the Tessendorf Paper.

RELEVANT COURSES

- Data Structures, Computer Graphics, Operating Systems, Software Engineering. tools, OOP in C++, Compilers, Computer Networks, Linear algebra, Advanced C programming