

Ainesh Sootha

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Experience

Amazon Web Services

Apr.2024 – Present

Software Engineer

Seattle, WA

Bedrock Generative AI

- Model optimization for LLMs.

Amazon

Jul.2023 – Apr.2024

Software Engineer

Seattle, WA

Just Walk Out Technology – Auth Orchestration

- Worked on large scale, low-latency software for orchestration of customer entry authentication and authorization. (Java – Backend, Kotlin – Android)
- Dealt with complex Payments, Fraud & Abuse systems (varying flows across countries) while building a high-throughput, Tier-1 service.

Amazon

May.2022 – Aug.2022

Software Engineer Intern

Seattle, WA

Just Walk Out Technology – Customer Identification & Tracking

- Built a trajectory visualization web application that accurately mapped customer journeys across stores. This helped reduce store deployment time and cost.
- Enhanced this app to help reduce time spend on operations within the wider Just Walk Out org.
- Developed a KPI viewing application that pulled data from different sources and helped Science and Research teams in JWO visualize model performance.

Purdue University College of Engineering

Aug.2021 – Dec.2021

Teaching Assistant

West Lafayette, IN

Software Engineering tools

- Mentored students in a lab course that dealt with Python, SQLite and bash

State Street Corp

Jun.2021 – Aug.2021

Software Engineer Intern

New York, NY

- Implemented a custom PDF generation service for **BestX** TCA dynamic web reports using chromium and Node.
- Built a tool to simplify deployment of Serverless Lambda Functions.

Projects (github.com/aineshsootha)

Realistic Ocean Simulation (OpenGL)

GPU-parallelized generation of realistic Ocean Waves using GLSL compute shaders based on the Tessendorf Paper.

Purdue Data Mine – Viasat

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

Purdue EPICS – Habitat for Humanity (Project Lead)

Built an inventory and user management web-app in php to decrease theft and loss for HFH Lafayette.

Education & Skills

Purdue University

2019 – 2023

BS, Computer Engineering

West Lafayette, IN

- Minor in Philosophy, Dean's List, Semester Honors
- *Learning Communities*: Engineering Projects in Community Service, Data Mine (Corporate Partners)
- *Relevant Courses*: Data Structures, Computer Graphics, OS, OOP in C++, Compilers, Networks, Linear Algebra
- *Skills*: C++, Java, Python, React, Node, Kotlin, C, MATLAB, JS, OpenGL, GLSL, Vulkan, AWS