

Shreyaan Arora

(303)-859-8017 | shreyaan.arora@colorado.edu | US Citizen

<https://www.linkedin.com/in/shreyaan-arora/>

EDUCATION

University of Colorado at Boulder, Boulder, CO

August 2019 – May 2023

Bachelor of Science in Computer Science with a Minor in Business

Relevant Coursework: Data Structures, Computer Systems, Operating Systems, Linux Systems, Algorithms, Management, AI, OOP, and HCI

Awards/Certifications: Deans List Student, Eagle Scout – Boy Scouts of America, Java Certification – Villanova University

SKILLS/INTERESTS

Languages/Technologies: C++, C, Swift, C#/.NET, Python, HTML/CSS, Java, JavaScript, React, SQL & NoSQL DBs, ADA, and Kotlin

Tools: Git, Jira, Confluence, NodeJS, Docker, Flask, Postman, REST, Eclipse, Xcode, VS Code, AWS, Slack, Azure, and Tanzu

Interests: Skiing, Programming/Tinkering, Cars, Music, Bollywood, and Traveling

PROJECTS

µHPC Study

April 2023

- Conducted a study on micro-computer clusters' performance for HPC tasks, comparing three different operating systems' impact on performance.
- Set up and benchmarked machines running a custom parallelized Python Fourier transform, demonstrating significant speedup in parallel execution using µHPC.

LetsTalk – AR Group Chat iOS Application

Nov 2022

- Designed, co-developed, and tested a novel group messaging AR focused mobile iOS Application.
- Resulted in a unique immersive group chat experience leveraging Swift UI, Cocoa Pods, AR Kit, and Firebase.

Data Structures Efficiency Project

April 2020

- Implemented custom Binary Search Tree, Linked List, and Hash Table in C++ for USPS data sifting run-time scenarios.
- Observed approx. 400% speed increase in searches using a Hash Table (w/Linked List Chaining Collision Resolution).
- Coauthored and presented a paper on the optimal data structure for package data processing.

WORK EXPERIENCE

Lockheed Martin Corporation, Colorado Springs, CO

August 2023 - Present

Software Engineer

- Developed various features and support tools for SBIRS/OPIR ISIM on LM Space's ISIM team
 - Developed ISIM features such as Active Ports Display, COMs State Display Color Coding, and Simulator Visualization's Command parameters auto-population using Java.
 - Projects: Transitioned from legacy C++ to Java for satellite/simulator hex command generation, including command validation, database-wide command generation, and tools for interpreting vehicle reported health and telemetry data.

Lockheed Martin Corporation, Littleton, CO

June 2022 – August 2022

Systems Integration Intern

- Conducted a full business need analysis and problem identification, resulting in the presentation of a plan for a universal alert/messaging microservice.
- Designed, developed, tested, and deployed an end-to-end universal Slack Messaging Microservice using Slack APIs.
- The final microservice, implemented as a Python-based Flask app in a Docker container, was deployed on VMware Tanzu (PCF) to enable applications to receive live backend alerts through HTTP POST requests.

Apple Inc., Boulder, CO

October 2021 – February 2022

Specialist

- Acquired comprehensive knowledge of the Apple product mix and maintained a high level of technical expertise in Apple hardware/software. Enabling informed and enhanced customer interactions, refining sales skills to provide solutions for both general customers and businesses/professionals.

University of Colorado at Boulder | Computer Science Dept., Boulder, CO

January 2021 – May 2023

Course Assistant

- Assisted, taught, and guided students in Data Structures and Database Systems courses with related computer science coursework/material.
- Gained deeper understanding of course contents and developed tactical communication with effective training/teaching skills.

Wide Open West Inc., Englewood, CO

June 2017/18 - August 2017/18

Software Development Intern & Systems Analyst Intern

- Tasks in these roles included creation and reviewing of "User Stories" in Atlassian Jira along with various intern assignments
- Sub-tasks included revising existing algorithms, software & hardware architecture, and ensuring maximum efficiency. Also assisted with critical documentation and presentation of systematic discrepancies alongside relevant code reviews.
- Designed, developed, and deployed the front and back end for a large internal dictionary application.