Resume of Sean Shi

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A self motivated curious learner, focused, persistent, hardworking, detail oriented, preference for challenging tasks, problem solving. Particularly interested in Linux and cryptography.

Education

University of Colorado Boulder, (2021-2025)

- **BS Computer Science** *Summa Cum Laude*   GPA: 3.97
  - Network Systems (CSCI4273)
  - Linux/Unix Systems Administration (CSCI4113)

  - Software Development Tools and Methodologies (CSCI3308)
  - Object Oriented Analysis and Design (CSCI4448)

- **BA Mathematics(Statistics Track)** *With Distinction*   GPA: 3.97
  - Statistical Methods and Applications (STAT4000)
  - Introduction to Cryptography and Coding Theory (MATH4440)

Projects and Experience

- TechLibrary (Webserver, project for software development class)
  - Employing NodeJS to create a web server to facilitate communication with our postgres database and allow users to search for items, add them to the cart, and check them out.
  - Facilitating cooperation through requesting feedback on code, delegating tasks, and organizing meetings through groupme resulting in our team of 6 people finishing the project on time.
  - Designing a website using Bootstrap, HTML, CSS, and JS to enhance user experience.

- Grocery Shopper (Autonomous robot controller, project for class Introduction to Autonomous Robot)
  - leveraging python libraries including numpy, OpenCV and ikpy to program a robot to autonomously explore and retrieve desired items in a grocery store like environment.
  - Adapted project requirements to schedules to ensure our project was completed on time.

- Definote (Android App, for class Object Oriented Design and Analysis)
  - Demonstrated effective use of OOP principles including design patterns, TDD, BDD, encapsulation.
  - Used Tools and Framesworks including Kotlin, Room (SQLite database wrapper), Jetpack Compose(UI Framework), and Material Design

- Analysis of Walkability in the United States (project for STAT4000)
  - Analyzed various factors influencing walkability in the United States using R including ggplot, tidyverse, and lm to discover trends between various traits of a location.
  - Composed a report using LaTeX to present trends between factors affecting in a concise manner.

Work Experience

- Senior Lifeguard (APEX Park & Rec. District 13150 W 72nd Ave, Arvada, CO) *June 2021-August 2024*
  - Managing/leading lifeguards on a shift, enforcing accountability for tasks
  - Testing and maintaining pool chemistry
  - Lifeguard of the Month in November 2021

- Student HPC Systems Admin (CU Boulder Research Computing) *July 2024 to May 2025*
  - Administering and troubleshooting/fixing nodes in a HPC cluster
    * Working with vendors to repair nodes
  - Automating syncing of configurations across nodes using ansible

Skills/Interests

- Skills: Git, C/C++, Python(numpy, opencv, . . .), R, Java, Linux(system administration), Android(Kotlin, Jetpack, SQLite, etc), Bash, MySQL, MongoDB, Docker, Emacs/Elisp, Zig, Lua
- Hobbies: Origami, Chess, Reading, Minecraft, Math, Linux, Hiking
- Member of the CU Taekwando club and Tau Beta Pi(the Engineering Honors Society)