SEAN KING

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EDUCATION

UC San Diego   San Diego, CA
BS Computer Science *GPA: 3.98*   2022 - 2026 (Expected)

Pinewood High School   Los Altos, CA
GPA: 4.54 (Valedictorian)   2018 - 2022

EXPERIENCE

CalTopo   Truckee, CA
Software Engineer Intern   June 2020 - August 2020

- Interned at CalTopo, a company specializing in mapping software for backcountry enthusiasts and first responders. Project Lead for development of geology overlay using United States Geological Survey Data. Worked in Linux VM using Python, SQL, and Mapnik. This project is in production and available to customers.

CalTopo   Truckee, CA
Software Engineer Intern   June 2021 - August 2021

- • Managed project to develop the skiing and mountain-biking overlays, Switzerland topographic maps, and an updated basemap. Attended weekly company meetings and conducted company-wide code reviews. Worked in Linux VM using Python, SQL, Mapnik, PostGIS, and Shell Scripting. All projects are in production and available to customers.

Self-Employed   San Diego, California
UCSD Computer Science and Engineering Department   September 2023 - Present

- I hold weekly office hours, one-on-one tutoring sessions, grade papers, proctor exams, and write homework problems for classes of over 200 students. I currently tutor CSE 21 (Mathematics for Algorithms and Systems) and have previously tutored CSE 20 (Discrete Mathematics), both with Miles Jones.

UCSD Outback Adventures   San Diego, CA
Outdoor Guide and Facilitator   October 2022 - Present

- Organize, plan, and execute up to 9-day wilderness outings with groups of 6-12 people. Activities include backpacking, kayaking, rock climbing, hiking etc. I also work at the on-campus climbing gym at UCSD.

SKILLS

Programming Languages:	Java, Python, C, ARM, JavaScript (beginner proficiency)
Other Tools:	Git, Express.js, Node.js, MongoDB, React, HTML, CSS, Linux, Shell Scripting
Hobbies:	Distance Running, Rock Climbing, Mountaineering, Biking, Reading, Maps, Music

PROJECTS

Summer 2022 - Inyo National Forest Permit Checker *Python, Linux, Shell Scripting, Git*
https://github.com/s3anAK/recreation-gov-availability
Created a public program that offers additional functionality for reserving Inyo National Forest permits from recreation.gov. My program uses the recreation.gov API to retrieve data based on user input and then sends the user an email when permits become available. I run this program for personal use on an AWS Lightsail server with cronjobs.

Fall/Winter 2022 - Food Recommendation App *MongoDB, Express.js, Mongoose, Node.js, React*
https://github.com/acmucsd-projects/fa22-hack-team-2
Selected as to participate in a highly competitive program (16% acceptance rate) as part of UCSD's ACM quarterly projects. Worked on a project team to develop a website built in the MERN stack to provide UCSD food recommendations based on the user's dietary preferences. Mainly responsible for developing a Restful API to access our MongoDB database of food options at UCSD.

AWARDS

Sierra Challenge White Jersey Winner   Sierra Challenge Committee
Awarded for climbing the most peaks during the 2021 Sierra Challenge in the under-25 age category. More
info at https://snwburd.com/bob/challenge/2021   August 2021