Cole Hopkins

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Education

California State University, Chico   December 2022
Bachelor of Science in Computer Science   3.44 GPA

Work Experience

Golf Cart Attendant - Petaluma Golf & Country Club (Petaluma, California)   April 2017 – August 2021
- Managing multiple tasks in a critical timeframe
- Organize and run important events such as weddings and memorials
- Coordinate with staff to promote and ensure efficiency
- Maintain a professional relationship with club members

Projects

Filesystem Performance Script
- Mounted common filesystems onto logical drives for testing reading speed of random data using Linux
- Created an automated bash script to collect statistics of differing bytes and block sizes on the filesystems

Security Forum
- Utilized the Django web framework for front and back-end development for a web forum using WebSocket API
- Containerized project using Docker and used Google Cloud Platform to host the services

DNS Resolver
- Developed in C to create a multi-process DNS lookup program to resolve hostnames using POSIX threads
- Implemented bounded buffer to synchronize shared resources and avoid deadlock between two process pools

Library Database
- Worked in a team of other students to develop an application for a library database focusing on UI and design
- Implemented SQL to manage large database of library books, and used git for version control while developing

Achievements

- Security Club (CSU, Chico)   January 2021 - Present
- Dean's Honor List, Spring and Fall 2021
- Participated in the National Cyber League Competition, scoring in the 92nd percentile of all other students nationwide

Skills

Programming Skills
- C++ (Concurrent/Parallel), HTML/CSS, Assembly, SQL, Python, Dart, JavaScript, Bash, R

Applications and Tools
- VMWare, Git, Docker, Nmap, Visual Studio/Code, Microsoft Excel, Android Studio, Wireshark, Burp Suite, Metasploit, Linux, MobaXterm, Ghidra, RStudio, MySQL, SIFT Workstation, FTK Imager

Frameworks
- Django, Flutter