Simon Koeten

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Education

Bachelor of Science in Computer Science
Colorado University, Boulder
Expected Graduation December 2021
Related Courses
Algorithms, Data Structures, Computer Systems, Software Development

Academic Projects

Ski Base
- Developed a website with data from 10 popular mountains in Colorado
- Tracked the number of days a user spent skiing or snowboarding
- Utilized a weather api for temperature, wind, and snowfall conditions
- Developed an SQL database and integrated it into a Node.js frontend

Computer Systems
- Completed labs: data, bomb, attack, performance, shell, and malloc
- Labs required creative problem solving in assembly code
- Learned bitwise operations, floating point arithmetic, and CPU core principles and architecture

Basketball Analysis
- Data Structures project centered around Hash Tables
- Read in data on teams and players
- Created and fine tuned a custom hash function to maximize the efficiency of the load factor in the table
- Analyzed data in order to make predictions about teams and player comparisons

Leadership Experience

Teaching Assistant (Fall 2019)
Meaning of Information Technology
- Lead 50 students during discussions relating to the tech industry and provided news on current events about technology
- Formulated lessons to evaluate how we interact with different forms of technology
- Graded midterm exams and nightly homework

Intern (Summer 2018)
Menlo Church: Student Ministries, Bay Area, California
- Collaborated and communicated with team members to plan and structure engaging and enjoyable events
- Coordinated weekly services for over 300 high schooler and middle schoolers
- Spent 100+ hours planning logistics, creating 5 carnival style games and respective booths made from scratch

Head Basketball Coach (Spring-Summer 2017)
Atherton Bulldogs, Bay Area, California
- Coached a fifth grade competitive basketball team of 12 players
- Focused on the value of teamwork
- Implemented different game strategies and practice drills

Skills

Programming Languages
C++ (advanced), Python (advanced), Java (intermediate), Javascript (intermediate), PostgreSQL (intermediate), HTML (proficient), CSS (proficient)

Operating Systems
MacOS (advanced), Linux (advanced), Windows (proficient)

Interest

Ceramics:
- Spent 3 years learning and practicing during and after highschool
- Focused on wheel throwing, exploring the limitations of the clay

Basketball:
- Played throughout high school, at the varsity level
- Favorite team: Warriors

Soccer:
- Favorite club teams: Liverpool and Ajax
- Favorite national teams: Netherlands and USA

Formula 1 Racing:
- Favorite driver: Max Verstappen
- Favorite track: Spa-Francorchamps, Belgium