NIKITA SIAHAAN

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EDUCATION

University of California, Los Angeles June 2022
B.S. Computer Science

Relevant Coursework: Object-Oriented Programming in C++, Algorithms & Complexity, Data Science, Artificial Intelligence, Operating Systems, Networking, Cryptography, Computer Security, Databases

SKILLS & INTERESTS

Programming Languages: Python, C, C++, HTML, CSS, JavaScript, SQL
Technologies: Git, Linux, Bash, Flask, Sklearn, Pandas, PostgreSQL, Docker, Figma, Svelte, REST APIs
Interests: Teaching, Drawing, Painting, Competitive Video Games, Cars, Roller Skating, Rock Climbing

PROJECTS

Aligned – *Svelte, Flask, Python, HTML/CSS, JavaScript*

- Collaborated with 5 developers to build an astrology-based dating website using the Svelte framework
- Spearheaded design process by planning and creating style guides, wireframes, and original artwork
- Developed, integrated, and tested Svelte front-end components to ensure full website functionality

Kalah – *C++*

- Implemented an interactive game Mancala using object-oriented design, inheritance, and polymorphism to create human and computer player classes
- Utilized Minimax algorithm to emulate a smart player that evaluates possible moves and outcomes

Ants vs. Bees – *Python*

- Developed an interactive tower defense game inspired by Plants vs. Zombies and accompanying GUI
- Implemented various game difficulties and character classes containing a range of unique abilities

Symptoms and Diseases Model – *Python, Pandas, Sklearn*

- Collaborated with 3 developers to build a disease prediction model based on a patient's given symptoms
- Utilized Naive Bayes classifier to train model in order to increase prediction accuracy rate to 91%

Product Success Analysis – *Python, Pandas, Sklearn*

- Developed success forecast for cannabis products by using and testing several predictive models
- Analyzed 145,000 product prices, types, and sales to leverage model and estimate product success

EXPERIENCE

Juni Learning May 2021 – Present
Computer Science Instructor – Python, C++

- Instructed 20+ K-12 students, adapted to various learning styles, and ensured every student had a thorough understanding of each learning target in order to meet academic expectations
- Tailored learning curriculum to improve students' programming and critical thinking skills
- Fostered a safe, positive learning environment and built meaningful mentor-student relationships