Elyas Ahmed

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SUMMARY:

College junior in Electrical Engineering and Computer Sciences (EECS) passion for software engineering and efficient algorithm development. Actively pursuing an internship opportunity to apply both my collaborative and engineering skills to design impactful/effective software systems.

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RELEVANT EXPERIENCE:

ML Research Intern - Space Science Laboratory, Berkeley, CA   **06/2023 - 08/2023**

❖ Utilized *Python* to develop *neural networks* and *symbolic regression models*, applying data analysis techniques for processing particle distributions from the sun using the Parker Solar Probe (PSP) mission. Contributed to optimizing computational methods, enhancing the efficiency of data extraction and interpretation in the context of data analytics *(eg. PyTorch, TensorFlow, Pandas, Keras, scikit-learn, etc)*.

Computer Science Club President - Chabot College, Hayward, CA   **05/2022 - 06/2023**

❖ Developed and executed strategic agendas, leading meetings and driving club activities within budgetary parameters.

❖ Secured support, enforced regulations, and strengthened member relationships through initiatives like organizing game nights, collaborative problem-solving sessions (e.g., LeetCode), and mentorship sessions. These efforts fostered a vibrant community, significantly contributing to the club's substantial growth and success.

❖ Initiated and led technical projects, such as programming a self-driving drone using a Tello drone platform and integrating *ultrasonic sensors*. These hands-on coding workshops and collaborative projects significantly improved members' technical skills, fostering individual growth within the club.

Summer Institute Intern - Google LLC, Remote   **06/2021 - 08/2021**

❖ Developed interactive gaming websites, including classics like Tic Tac Toe, Pong, and Space Invaders, utilizing *Javascript*, *HTML*, and *CSS (as well as flask)*. Tackled programming challenges, honing teamwork and communication skills involving strategic thinking and collaboration.

Intel Mentee - Intel Co., San Jose, CA   **12/2018 - 05/2021**

❖ Networked with 3+ mentors and employees across several Intel departments. Attended several Intel-hosted events for artificial intelligence and virtual reality, which allowed me to better understand the work-life at a top tech company.

PROJECTS:

Scheme Interpreter

❖ Developed a *Scheme interpreter*, seamlessly integrating Scheme into Python for token parsing and evaluation. Extensively debugged the interpreter's functionality by writing comprehensive Scheme programs, fostering a deep understanding of language interoperability and interpreter design.

Autocorrected Typing Software

❖ Designed and developed a *typing speed measurement* program with autocorrect features, encompassing functionalities to calculate correctness percentage, words per minute (wpm), and elapsed time. Implemented an autocorrecting algorithm to enhance the user experience by correcting spelling errors in real-time.

Ants vs SomeBees

❖ Programmed a strategic tower defense game drawing inspiration from Plants vs. Zombies, showcasing proficiency in *object-oriented programming*. Enhanced strategic coding skills through hands-on work, including comprehension, extension, and testing of a sizable codebase.

Hog

❖ Created a Hog simulator with diverse strategies and unique rules to add complexity and excitement, showcasing proficiency in strategic thinking and problem-solving to create an engaging and *dynamic gaming environment*.

EDUCATION:

EECS - University of California, Berkeley, CA   **06/2023 - 05/2025**
CE/CS - Chabot College, Hayward, CA   **06/2021 - 05/2023**

Relevant Courses:

❖ Database, Advanced Programming with Data Structures, Structure and Interpretation of Computer Programs, Structured Programming in C++, Object-Oriented Programming Methods, Computer Architecture, Quantum Mechanics (Modern Physics), Electromagnetism and Photonics, Designing Information Devices and Systems

SKILLS:

❖ Python, C++, Java, SQL, HTML, CSS, JavaScript, x86 Assembly, IDL, Julia
❖ Visual Studio Code, Xcode, Git, Microsoft Visual Studio, Eclipse
❖ Testing/Debugging Software Applications

OTHER SKILLS

❖ Windows, macOS, Linux, Unix:
❖ Excellent Communication
❖ Leadership
❖ Fast Learner
❖ Problem Solving

❖ Multitasking
❖ Critical Thinking
❖ Collaboration
❖ English, Arabic, Spanish