Matthew L. Simon

Ambitious and goal-oriented Computer Scientist with a wide variety of project experiences. Excels at self-motivation and meeting deadlines. Passionate about artificial intelligence and the next generation of "smart" technologies, seeking a challenging internship in software development.

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Technical Skills

Languages:

Python, Java, Ocaml, C, C++, JavaScript, R, AMPL

Tools:

Eclipse IDE, MS Visual Studio, Unity, GitHub, Oracle VM, VIM, Junit testing, Logisim, Processing

Soft Skills

- Teamwork
- Adaptability
- Communication
- Self-management
- Problem solving
- Leadership
- Time management

Interests

- Artificial Intelligence
- Robotics
- Music
- Travel

Experience

Electronics Sub-Team Lead for Cornell ChemE Car Project Team

Accomplishments: May 2018 – Present

- Lead a team of five undergraduates in creating all electronic subsystems on the car.
- Designed and implemented new PWM motor controller which improved the cars efficiency by 90%.
- Organized and refactored our budget - now consistently the lowest spending sub-team.
- Implementing team wide Gantt chart to aid in team communication and workflow.

Genetic Smart Rockets

Accomplishments: Sept 2019 – Dec 2019

- Created a genetic algorithm visualization/simulation tool.
- Modular rockets, with attributes controlled by user, navigate a maze of obstacles. Each generation learns (improves) and the user can determine how their chosen attributes effect the genetic algorithm and fitness function.

Terminal Based Monopoly

Accomplishments: Sept 2019 – Dec 2019

- Created the UI, Graphics Functionality, and Test Suite for our game.
- Worked in a team of three to create the classic Monopoly game, displayed in the terminal, using Ocaml.

Aerojet Rocketdyne, University of Virginia – Instrumentation/Data Lead

Accomplishments: Oct 2016 – Apr 2017

- Worked with Aerojet Rocketdyne and one UVA graduate student to design and produce a modular solid-fuel ramjet motor.
- Lead the instrumentation/Data team in implementing sensors and analyzing pressure and temperature data.

Education

Cornell University August 2017 - May 2021

Bachelor of Science in Computer Science

Current cumulative GPA: 3.4/4.3

Honors: Dean's List 2nd semester