Dylan Scott Carroll

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Education

Western Washington University – 4.0 GPA

Sept. 2019 – Present | Bellingham, WA
Current 3rd Year Undergraduate

B.S. in Computer Science / Minor in German
CS Distinguished Scholars Program

Experience

WWU Computer Science Mentor Oct. 2021 – Present | Bellingham, WA

Acted as an experienced peer mentor for a student in the computer science pre-major.

Undergraduate Research Assistant – Dr. Brian Hutchinson Sept. 2021 – Present | Bellingham, WA

- Utilize CNN and Perceiver models on an astronomical classification problem.
- Use PyTorch Lightning and Hydra to implement and train machine learning models.
- Learn about machine learning theory and popular machine learning models.

Resident Advisor - Western Washington University Jan. 2021 – Mar. 2021 | Bellingham, WA

- Serve as a peer advisor and educator to an assigned community of 64 students
- Organized weekly social and educational events for the student community.
- Attend weekly staff and individual meetings and participate in ongoing training sessions.

Skills

- Python, Java, C, C#, C++, LUA, HTML5, CSS, Javascript, LaTeX, RegEx
- VS Code, GIT, SSH, GDB, BASH, Make
- Conversationally proficient in German
- Strong drive for self-teaching and problem solving

Personal Projects — See GitHub and dylancarroll.net for more

Course Scheduler — HTML, CSS, Javascript Jun. 2021

- Generates all potential class schedules given a list of course IDs, time slots, and search parameters.
- Displays a graphical calendar view of every given schedule.
- Scrapes course section information from WWU course finder webpage.

Abalone AI — Python, Pygame Aug. 2021

- Uses alpha-beta pruning minimax algorithm to play the abstract strategy game Abalone.
- Consistently beats average human players.

3D Rendering Engine —C, C++ Apr. 2021

- Uses raytracing to render 3d scenes with diffuse, reflective, refractive, and flat shaders.

Terminal Calculator — Python, RegEx, LL Parsing Nov. 2020

- A simple, but powerful scientific calculator for the command line Intended to replace graphical calculators for fast computations.

Machine Learning Language Generator — Java Jun. 2020

- Uses a trained Markov-chain model to generate new text based on patterns found in an input text.