DALTON RUTLEDGE

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Goal: Software Engineering or Research Intern

Fourth year undergraduate enrolled in liberal arts honors college with experience in human-computer interaction research, web-development, and software development. Seeking to actively contribute in a collaborative research setting geared towards the development and understanding of new technology.

TECHNICAL SKILLS

Experience developing programs with the following languages and tools:
JavaScript, WebGL, HTML5, and AWS • Java and SQL • Python • C, Bash, and NGINX • Unity and C#
Experience implementing the following concepts through programming:
Data Structures • Advanced Searching Algorithms • Rendering and Computer Graphics
Database Design • Version Control • Web and Desktop Application Development • User Interface Design

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EDUCATION

Westminster Honors College • Salt Lake City, Utah
Bachelor of Science Computer Science, Graduating May 2020, GPA 3.97
University of Glasgow • Scotland, UK (Spring 2018)
Northland Preparatory Academy • Flagstaff, Arizona
Graduated 2016, Valedictorian, 4.0 GPA

RESEARCH EXPERIENCE

REU Student Researcher • Computational Sensing for Human Centered AI REU • New York (Jun - Aug 2019)
- Independently developed and tested eye-tracking based magnification software targeted at low-vision computer users.
- Extensively prototyped with multimodal input technologies, including eye-tracking, facial expression, and galvanic skin response sensors.
- Thoroughly researched the field of technological development for low-vision users in order to properly develop targeted accessibility tools.

Columbia: Serve and Explore Program • Westminster College • Colombia (Jun 2017)
- Collected water contamination data for local government in Bucaramanga to address runoff from household chemicals causing sickness in poor communities.
- Worked in Spanish with local community organizations to create sustainable solutions to water contamination and proper waste disposable problems.

WORK AND PROJECT EXPERIENCE

Systems and Programming Teaching Assistant • Westminster College • Utah (Aug 2019 - Present)
- Assist students in developing their C-programming skills and computer systems understanding.
- Teach programming and computer systems fundamentals during independent office hours

Waste Tracking Application • Westminster Environmental Center • Utah (Nov - Dec 2018)
- Through direct client interaction, worked in a small team to create application for Westminster Environmental Center that organizes and aggregates waste production data from Westminster campus.
- Application praised and in use currently by Westminster Environmental Center
- View the project at https://github.com/dalton-rutledge/wasteproject

Student Honors Associate • Westminster Honors College • Utah (Aug 2017 - Present)
- Manage and handle technological needs of the Honors building
- Assist and educate visitors about the Honors program. Market to prospective students the opportunities offered by the Honors program.
- Analyze building usage data to improve programming, using feedback from the Honors community.