Alison Garrett-Engele
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EDUCATION

Macalester College, Saint Paul, MN   B.A. Expected May 2021
Major: Computer Science; *Concentration:* Cognitive Sciences   GPA: 3.83
Selected Coursework: Object-Oriented Programming, Algorithm Design and Analysis, Software Design and Development, Theory of Computation, Computer Systems Organization, Intro to AI, Programming Languages, and Intro to Database Management Systems
Honors: Macalester Dean's List, DeWitt Wallace Distinguished Scholar (*highly competitive scholarship for commended students*), Clare Boothe Luce Scholar (*awarded to eight students each year*)

Aquincum Institute of Technology, Budapest, Hungary   *January 2020 - May 2020*
Selected Coursework: Mobile Software Development, Leadership and Entrepreneurship Studies in Computer Science, User Experience Design

RELATED EXPERIENCE

Honeywell, Minneapolis, MN   *June 2020 - August 2020*
Application Engineer Intern
- Provided the back-end code necessary to migrate the balancing processing for the Spyder 5 controller to HTML5, improving user interaction
- Programmed balancing support for the new Spyder 5 Controller using a mixin class and tags to access device points, ensuring more device properties can be virtually monitored
- Developed set, override, and auto actions for controller points as well as actions to backup and restore device data, allowing a user to virtually alter device properties
- Strengthened my self-management and problem-solving skills by organizing a weekly schedule for myself and taking the initiative to support device actions

Macalester College, Saint Paul, MN   *May 2019 - July 2019*
Clare Boothe Luce Research Scholar with Prof. Lauren Milne
- Built the iOS application Blocks4All, currently in TestFlight, along with fellow student researchers to allow low-vision and blind children to compete in Wonder Workshop's Robotics Competition using the Scrum framework
- Expanded accessibility labeling to provide more user interaction with VoiceOver
- Created new functionality by allowing users to save and load work as well as design variables and functions
- Programmed back-end code to transform user input into robotic commands using Swift and Wonder Workshop's API

Macalester College, Saint Paul, MN   *Sept. 2018 - May 2019*
Intro-level CS Preceptor
- Explained course material (the design and implementation of algorithms and the purpose of abstraction and testing in computer science) in order to facilitate student learning
- Resolved any programming confusion by holding office hours to answer questions and share examples demonstrating course topics, supporting student success
- Provided constructive and timely feedback for every graded in-class assignment

SKILLS

Hard Skills: Java, Python, Swift, Javascript, C, React, Bootstrap, Node.js, Git, SQL, MySQL
Soft Skills: Teamwork, Problem Solving, Self-management, Communication, Strong Work Ethic