Avery Gosselin

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EDUCATION

University of Maine **Orono, ME**
BS in Computer Science GPA: 3.9/4.0 *Expected Graduation: May 2021*

SKILLS

- **Programming Languages**: Python, C, PHP, Java, HTML/CSS/Mustache, C++ (Novice)
- **Technologies**: Amazon Web Services, Git, Github, MySQL, Docker, SQLite, Leaflet, Django

EXPERIENCE

Servant Heart Research Collaborative **Orono, ME | Remote**
Student Developer *Sep 2019 – Present*

- Developed a LAMP based educational website for students in Sierra Leone
- Created an AWS cloud architecture, scalable to 90,000+ users, using EC2 (instances, autoscaling, and load-balancing), RDS, Route 53, SES, and Backup
- Full stack development, using: PHP, HTML/Mustache/CSS, MySQL, Linux, and Apache
- Organized teams of student developers, UMaine faculty, and partners in Sierra Leone to develop documentation, define requirements, and test the system to meet deadlines

PERC_Lab **Orono, ME | Remote**
Student Research Assistant *April 2021 – Present*

- Researched privacy policy ambiguity with contextual integrity analysis
- Developed a framework to score privacy policies in a standardized way based on a company's clarity and privacy practices
- Co-authored a, now published, research paper in Overleaf on our initial results and plans for the future

MCI App Camp **Maine Central Institute**
Founder and Counselor *2019 – 2019*

- Founded an annual weeklong summer programming camp for 4-13 year olds
- Developed a curriculum using code.org to teach the students foundational computer science skills
- Produced advertising materials and coordinated with school officials

PROJECTS

CCNavigator *Jan 2021 – May 2021*

- Utilized Django, Overleaf, SQLite, and Leaflet to develop an app to navigate Orono's public transit system
- Designed and implemented a shortest path algorithm to calculate fastest routes in a graph of bus stops
- Led and collaborated with a development team in Scrum meetings to define and create the system

Room of Requirement Web App *2019 - 2020*

- Developed a web application to enable in-need students of my school to easily request essential goods like food and clothing from our donations center
- Worked with school officials to get the app included on all school iPads
- Submitted the app, with a pitch video, to the Maine App Challenge and won second place

Arduino Rover *Dec 2020 - Present*

- Designed, programmed (in C++), 3D-printed, and assembled an Arduino powered rover
- Published the process and code/stl files to my Github for others to play with

ADDITIONAL

- **Relevant Coursework**: Data Structures and Algorithms, Software Engineering, Object Oriented Programming, Discrete Structures, Computer Architecture
- **Awards and Honors**: James S. Stevens Outstanding Junior Award (2021), Maine Top Scholar Award (2019 - Present), Maine App Challenge 2nd Place Finalist (2019)
- **Leadership Roles**: VP of Administration of Beta Theta Pi (Beta Eta Chapter), Captain of hockey, lacrosse, and golf teams in high school