ABIGAIL RICTOR

(720) 315-4159
amrictor@gmail.com

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github.com/amrictor
linkedin.com/in/amrictor
amrictor.com

COMPUTING SKILLS, TOOLS, & STRENGTHS

- *C#*, *Java*, *Python*, *C++*, *C*
- *JavaScript*, *PHP*, *HTML*, *CSS*, *SASS*
- Frontend development; design concepts and JS frameworks and libraries
- Visual effects using *Processing*, *SVG*, *CSS* animation
- Functional programming concepts

- Client-server communication concepts and tools
- SQL and NoSQL database systems, *GraphQL*
- Test driven development, automated test frameworks and tools including *JUnit*, *Jest*, *Robot, Jenkins*
- Version control with *Git* and various *Git* clients
- Batch and bash scripting and commands

EXPERIENCE

Hewlett Packard Enterprise, Fort Collins, CO - *Software Development Intern*   SUMMER, FALL 2019
- Saved hours of developer time during triage by creating a tool for the visualization and navigation of log files
- Parsed log information from 100,000+ line log files, stored and accessed data using PostgreSQL and GraphQL
- Intuitively displayed data in a locally hosted ReactJS web application; log entries follow the chronological flow of system activity and allow users to filter for more relevant events

Pelco by Schneider Electric, Fort Collins, CO - *Software Quality Assurance Intern*   SUMMER, FALL 2018
- Automated API testing for a security video management system using Python and Robot Framework
- Worked in agile environment with remote team, participated actively in scrum ceremonies

Colorado State University, Fort Collins, CO - *Undergraduate Teaching Assistant*   FALL 2017, SPRING 2018
- Taught the foundations of Java and Object Oriented programming to small groups in lab and one-on-one

Lat-Lon, Denver, CO - *Quality Assurance Intern*   SUMMER 2017
- Soldered, programmed, tested, and inspected components of custom GPS units

LEADERSHIP AND ACTIVITIES

ACM-W - *Treasurer, Webmaster, Ex-officio*
AUGUST 2016 - DECEMBER 2019
- Organizes, attends, and volunteers for events designed to inform and create opportunities for women and minorities in Computer Science
- Oversaw funding and purchases (2017-2018)
- Managed and developed automated system for updating website and emails (2018-2019)
- Mentors new leadership (2019)

CSU Mentorship & Outreach - *Volunteer*
AUGUST 2017 - DECEMBER 2019
- Gives tours, talks, and workshops to prospective students and mentors current students in Computer Science to improve enrollment, retention, and graduation rates, particularly for women and other underrepresented students

Expanding Your Horizons - *Volunteer, Workshop Leader*
APRIL 2017 - APRIL 2019
- Put on "Binary Bracelets" workshop for middle school girls with an interest in technology at the annual EYH conference in Fort Collins

CSU Maker Committee - *Founding Member*
OCTOBER 2018 - DECEMBER 2019
- Coordinated student access to training and equipment for prototyping, woodworking, and metalworking at the Nancy Richardson Design Center

PROJECTS

- Reimagined board games which are playable in-browser and allow multiple players to simultaneously conduct turns, updating to reflect other players' data by using websockets.
- Trip planning service developed using a Java RESTful API and ReactJS client side; users can make filtered queries to database of airports, allowing them to design and export trips with customizable optimization
- Exploration of linguistic processing and text generation using Markov chains and neural networks with Pytorch to create computer generated poetry
- Virtual reality subtractive art program developed for Oculus Rift in Unity with a small team for a user study evaluating differences between 3D art forms; users could control the movement and size of a brush to carve from a high density block of voxels
- Recursive ray tracing rendering engine in C++ which produces images or animations of 3D space from transformed object (.obj) files

EDUCATION

Colorado State University, Fort Collins, CO
Bachelor of Science in Computer Science
DECEMBER 2019 GPA: 3.78