Brian Sayre

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Skills	Languages: Java, Python, C, JavaScript, SQL Tools: AWS, React, Git, Unix shell, LaTeX

Education

Iowa State University   *Aug 2018 - May 2022*
Bachelor of Science in Software Engineering

- Data Science Minor
- 3.89/4.00 GPA

Experience

Software Engineering Intern   *May 2020 - Aug 2020*
Principal Financial Group, Des Moines, IA

- Created a proof-of-concept for an internal chatbot for Principal's employees to use
- Developed using the AWS Cloud Development Kit written in Python
- Worked with a team of six interns practicing Scrum agile development
- Winner of PFG Summer Code Jam/Hackathon out of 15 other intern teams

Software Engineering Learning Community Peer Mentor   *Aug 2019 - Present*
Iowa State University, Ames, IA

- Host office hours and labs for an introduction to C programming course for freshman in the fall
- Teach a project-based software course for freshman in the spring
- Facilitate study groups, workshops, and social events for the learning community
- Assist with questions about ISU, transitioning to college life, and the Software Engineering major

Life Guard   *Jan 2019 - May 2019*
Iowa State University, Ames, IA

- Responsible for watching swimmers to assure safety
- Clearly communicate and enforce pool rules
- Carefully test and maintain chemical levels

Projects

Self-updating Github Profile README   *Summer 2020*
Python, Spotify API, GitHub Actions

I created a profile README for my GitHub account that, using GitHub Actions, updates with my most recent top Spotify tracks every night at midnight.

Instagram Bot   *Summer 2020*
Python, Selenium, GitHub Actions

I created an Instagram "bot" that will go through my account's feed and like my friends' posts. This was made so I could take breaks from social media while still being presumed as active.

Simplmeals   *Summer 2019*
React, HTML, CSS, Firebase

Simplmeals allows you to log in using your Google account. Users can store recipes and plan meals for each day. The site also automatically creates your weekly grocery lists.

RGB LED Light Box   *Summer 2019*
C, Arduino, RGB LED light strip

I used an Arduino to control an RGB light strip to create a light box that is controllable using an infrared remote. It was made to act as a faux window that changes colors depending on the time of day.

Involvement

Software Engineering Learning Community Peer Mentor
Engineering Career Fair Ambassador