

# Brian Sayre

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github.com/briansayre

## SKILLS

Java (*Eclipse, IntelliJ, Spring Boot, Android Studio*), JavaScript (*React.js, Vue.js, Node*), Python, AWS (*Lambda, S3, DynamoDB, CDK*), C, HTML, CSS, SQL, Git, Unix

## EDUCATION

### Iowa State University

Aug 2018 - May 2022

*Bachelor of Science in Software Engineering*

- Data Science minor
- 3.9 GPA

## EXPERIENCE

### Software Engineering Intern

June 2021 - Aug 2021

*UnitedHealth Group, Eden Prairie, MN*

- Performed maintenance and bug fixes within Optum's FLEX Platform project to ensure high quality code
- Implemented a new pipeline for data validation and transformation using HL7's FHIR standards
- Developed web app using Vue.js and Spring Boot to aid engineers develop and test Liquid templates

### Software Engineering Intern

May 2020 - Aug 2020

*Principal Financial Group, Des Moines, IA*

- Created a proof-of-concept for an internal chatbot that enables employees to easily access resources
- Developed using the AWS Cloud Development Kit written in Python, utilizing AWS Lambda, S3, Lex, & Dynamo
- Worked with a team of six interns practicing Scrum agile development
- Winner of PFG's Summer AWS Code Jam/Hackathon against 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

## PROJECTS

### Self-updating Spotify GitHub Profile README

*Python, Spotify API, GitHub Actions*

- A profile README for my GitHub account that, using GitHub Actions, updates with my most recent top Spotify tracks every night at midnight using the Spotify API.

### Simplmeals

*JavaScript, HTML, CSS, React.js, Firebase*

- Simplmeals is a web app that allows users to create your own recipes and plan their meals. It was made to help me and others stay organized while grocery shopping and cooking.

### Sayre.link

*JavaScript, Node.js, Firebase, Heroku*

- Sayre.link is a personal URL shorten I created for personal use. It was created using Google's Firebase no-SQL backend and Node.js hosted using Heroku.

### Genetic Algorithms

*JavaScript, P5.js*

- This is a website I created to visualize a genetic algorithm. Allowed me to test how changing certain variables within the algorithm affects the outcome and efficiency of the algorithm.