

# Aaron Cassar

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## EDUCATION

### Bachelor of Science in Computer Science

2019 - 2021

Minor in Mathematics - Southern Oregon University - Ashland, OR, USA

SOU Honors, Provost's List

## EXPERIENCE

### Morgan (an AI chat bot for creating loans and working with loan officers)

Remote

Software Engineer

Oct 2022 - Present

- Worked in full-stack, developing in TypeScript & JavaScript; using Node.js, Socket.IO, and MongoDB.
- Collaborated in an Agile team of 15 members, also working closely with members of other teams.
- On frontend, used React (and React Native for mobile app) to develop admin panel and user conversation page for over 10,000 borrowers and loan officers.
- Initiated and led clean up & standardization of codebase as well as switching assets to SVGs and Lotties - overall improving performance of basic site functionality by over 700% (1,800ms to 250ms).
- Lead initiative for transition to using TypeScript instead of JS (in the process of developing library code) - resulting in additional code reusability and improved development time by at least 20%.
- On backend, developed software that interacts with OpenAI's ChatGPT and Twilio's Autopilot API.

### Springs (a marketing service for advertising and ranking digital resources)

Remote

Software Developer

Nov 2021 - Oct 2022

- Using Vue.js, Socket.IO, and Flask (Python), built an SEO-optimized website for marketing services.
- Added Stripe integration for monthly subscription model and site revenue.
- Handled site database, using Amazon's DynamoDB as our NoSQL db.
- Developed GraphQL API (using Apollo) for querying resource rankings, ratings, and categories.
- Worked with influencers and content creators, marketing the site and services.

### Wanderer's Guide (a digital toolset and management platform)

Remote

Founder

Jun 2019 - Present

- Worked in full-stack, developing in JavaScript (and TypeScript); using Node.js, Vue.js, & Prisma
- Designed and developed a content creation platform for over 65,000 users (~1,800 daily active users).
- Built content distribution Restful API and created my own OAuth 2.0 implementation.
- Created a verified Discord bot utilizing the API I created which is used in over 150 Discord servers.
- Managed cloud infrastructure, utilizing AWS, Amazon's Cloudwatch, and Microsoft Azure resources.
- Developed markup and compilation language, WSC, and created language compiler for it.
- Managed primary MySQL database instance for over 140,000 user character profiles.
- Worked with other content creators, setting up sponsorships and marketing deals.

### FlexSweep (a dust mop and broom manufacturing company)

Remote

Software Engineer

Mar 2018 - Apr 2022

- Seasonal contract work to manage backend infrastructure containing inventory and sales metrics.
- Built backend systems using Python and Firebase (Pyrebase), replacing original Java infrastructure.
- Using QuickBooks Online API, integrated company's files with backend systems.
- Developed inventory management interface for internal use, with Amazon integration - using Amazon's FBA Inventory API to track the real-time availability of products sold on Amazon.

### WalkAshland (an Android app that broadcasts and displays virtual tours)

Ashland, OR, USA

Java/Kotlin Software Developer

Feb 2021 - May 2021

- Worked in Agile team, building core framework for the app and managed testing and release tracks.
- Built tool in Android Studio that automatically generated waypoints and routes for Google Maps.
- Integrated the app with our Firebase database, migrating our system with other teams.
- Developed generation tools for nodes using Google Maps & Directions API.

## LEADERSHIP & OTHER AFFILIATIONS

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**Card-Board Club**, Co-President & Accountant

*Aug 2019 - Jun 2020*

- Managed group finances, weekly meetings (10-20 weekly attendants), and logistics.

**MTG Association**, President

*Dec 2019 - Jun 2021*

- Managed weekly meetings, twice-monthly events (20-35 attendants), budget, and more.

**Team Building Leader and Event Coordinator**

*Aug 2019 - Jun 2022*

- Lead peers once to three times per week in creativity and conflict resolution exercises. Eventually this became a paid job that I ran bi-weekly for two different groups of youth, ages 8-12.

## TECHNICAL SKILLS & INTERESTS

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**Languages:** JS/TS, Python, SQL, C#, Golang, Rust, Java, Kotlin, C++/C

**Tools/Frameworks:** NodeJS (Express), React, React Native, jQuery, Flask, HTTPX, VueJS, Angular, Sequelize, Prisma, Socket.io, Apollo, Google Cloud, DigitalOcean, Azure, AWS, GitHub, GitLab, MySQL, Firebase, DynamoDB, MongoDB

**Other Language:** Conversational ASL **Interests:** Hiking, TTRPGs, Software Development, Governance, Networking