

# Avi Soni

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<https://github.com/avi2soni>

## Education

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| <b>Arizona State University</b><br>BSE Computer Systems Engineering (Cybersecurity)<br>Honors: <i>Magna Cum Laude</i> | Tempe, Az<br>Aug 2019 - May 2023 |
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## Work Experience

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| <b>Arizona State University</b><br>Undergraduate Teaching Assistant | Tempe, Az<br>Jan 2022 – May 2022             |
| <b>Aryahi Trinity Inc.</b><br>Assistant Manager                     | San Francisco Bay Area<br>Jun 2018 – Present |

- Helped students understand concepts taught in CSE 365 (Information Assurance) and promoted student learning through tutorials and review sessions
- Tested assignments

- Interacted with customers managed cash, credit, check payments and transactions
- Managed all bookkeeping, employee shifts and salaries
- Organized an advertisement campaign and made a website resulting in a 20% increase in monthly revenue whilst also increasing the business rating
- Currently managing online presence on the website, Google, and Nextdoor

## Projects

### Electronic Fleet Management Web App (Javascript, Python)

- Developed front end that allows users to compare costs between their current fleet and a prospective electric fleet, users can also see a graphical comparison
- Made the app secure through token authentication
- Was team manager and used Jira to keep track of tasks and sprints

### Recommendation System (Python)

- Recommended electric cars to users based on their requirements and priorities
- Parsed csv database using pandas

### Doctor's Office Automation System (Java)

- Used JavaFX to create a UI where patients can log in and see appointment summaries and any prescriptions prescribed by the doctor after the appointment
- Used OrmLite to implement a SQL database to store user information

### LED Morse Code Flasher (C)

- Utilized the onboard LED on ARM processor platform

### Simon Game (C)

- Implemented the popular game of Simon onto an ARM processor

### Autonomous Maze Navigating Vehicle (MATLAB)

- Wrote code to make an autonomous vehicle that navigated a maze using touch, light, and color sensors

## Skills

**Languages:** C/C++, Java, Python, JavaScript, x86 (Assembly), Swift, MATLAB

**Tools:** GIT, Ghidra, Wireshark, GNU Debugger, Atlassian, Jira, gdb, VMWare, VirtualBox

**Knowledge/Processes:** Agile, Scrum, Software Testing