

# Alvin Hermans

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## Education

### The University of Michigan, Ann Arbor

- 2018 - 2022 (Expected)
- B.S. Computer Science
- Additional B.S. Cognitive Science
- Minor: Theater Design and Production
- GPA: 3.5
- Coursework: Data Structures and Algorithms, Language and the Mind, Linear Algebra, Psychology as a Natural Science, Lighting Design

## Skills

### Programming

- Favorites**
- C++ / C • Python
- Experienced**
- JavaScript / React • Java
- Comfortable**
- HTML / CSS • Android

### Design

- Favorites**
- UI / UX Design • Photoshop
- Experienced**
- Illustration • Video Production
- Comfortable**
- InDesign

## Selected Awards

### Torrington Regional Debate on Climate Change

- Winner
- 2018

### Harvard Model United Nations

- Best Delegate in Committee
- Roman Senate Crisis Committee
- 2018

## Experience

### Human Computer Interaction Lab

University of Michigan, Ann Arbor

#### Spontaneous User Engagement in Virtual Assistants

- Lead Research Scientist *August 2019 - Present*
- Leading project and designing user studies.
- Improving human interactions with technology by investigating the utility of well-timed interruptions by a virtual assistant (Amazon Alexa, Google Assistant, etc.).

#### Autonomously Auditing Government Benefits Portals

- Researcher *Summer 2019*
- Worked with a team to perform an independent audit of the Pennsylvania state COMPASS portal, identifying wider sources of inequality in government online welfare portals.
- Used Python machine learning pipelines and data science to extrapolate from census data within 0.5% error.

### Rude Mechanicals Theater Group

University of Michigan, Ann Arbor

#### A Streetcar Named Desire

- Assistant Lighting Designer *March 2019*
- Worked closely with a lighting designer and director in a technical theater setting to light a professional theater production. Managed a cast of 10 actors and was responsible for rigging, focusing, and wiring the production.

## Selected Projects

### Dynamic Stock Market Simulation

- Data Structures and Algorithms *July 2019*
- Engineered a dynamic stock market simulation system to perform realistic trades at high volumes. Built in C++ using priority queues and the Standard Template Library.

### Oppur: Social Photography

- MHacks 11 Hackathon *October 2018*
- Built a photography-focused social media platform for Android devices using the Google Maps API and Firebase for persistence. Designed and built an intuitive user interface and integrated Google Maps technology.

## Links

- Github:** AlvieH
- Gitlab:** AlvieH
- Linkedin:** aherma