

# Arvid Brunsell

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## Projects

### Active Park Assist Software Requirements Specification (SRS)

- Designed an active park assist system for an automatic Ford vehicle as a group
- Created diagrams such as domain models and prototype for the customer to understand system behavior
- Project included software requirements elicitation, risk analyzation, collaboration, technical writing skills

### Discord Music Bot

- Implemented a Discord server bot that will listen to commands from end user, and play audio clips from YouTube in a server voice channel
- Technologies used include the Discord Web API, Node.js, and JavaScript

### Capstone Project: Virtual Computer Service Enhancements

- Developed Microsoft PowerShell scripts to automate manual processes and transition to a persistent to non-persistent virtual machine environment
- Project sponsored by Dow, utilizing Microsoft Azure cloud environment
- Technologies used include Windows PowerShell ISE, Microsoft PowerShell scripting, Microsoft Azure (Azure Automation, Virtual Machines)

## Education

### B.S. in Computer Science, Minor in Japanese | 09/2018 - 12/2021

Michigan State University, East Lansing, Michigan

GPA: 3.72 / 4.00

- Relevant Courses: Artificial Intelligence (AI) | Algorithms and Data Structures | Algorithm Engineering | Computer Organization and Architectures | Computer Networks | Database Systems | Web Application Design and Development | Software Engineering | Software Design

## Skills

**Programming:** Python | PHP | JavaScript | C/C++ | Microsoft PowerShell | Java

**Web Technologies:** HTML | CSS | Sass | jQuery | AJAX

**Cloud Technologies:** Microsoft Azure (Azure Automation, Virtual Machines, Azure Active Directory)

**Databases:** SQL | MySQL

**Other Tools / Frameworks:** Git | Linux | Webpack | Node.js | Microsoft Office

**Foreign Languages:** English (native) | Japanese (fluent)

## Work Experience

### Michigan State University Animal Sciences, Remote | Part-Time Full Stack Web Developer | 05/2021 – 03/2022

- Developed the Top Milk Antibiotic Usage Benchmark Tool website.
- Analyzed users' dairy cow and calf antibiotic usage to other farms in the United States, creating a benchmark report through back end PHP and MySQL database to track user information and farm data
- Designed website behavior and front end utilizing CSS, HTML5, and JavaScript

### Independent, Remote / Michigan | English Tutor | 01/2017 – 12/2021

- Tutored Japanese overseas students to learn English online using programs such as LINE and Skype as well as taking part in-person tutoring

### Michigan State University Residential and Hospitality, East Lansing, Michigan | Sparty's Store Crew Lead | 02/2019 – 10/2020

- Supervised small teams in-store to perform tasks such as cleaning and stocking of the store, operating POS system

### Home Depot, White Lake, Michigan | Lot Associate | 06/2020 – 08/2020

- Helped product into customers vehicles, collecting carts, retrieving delivery items inside the store for customer inquiries