# Arvid Brunsell

arvid432000@gmail.com · github.com/18brunsella

*Projects*

**Active Park Assist Software Requirements Specification (SRS)**
- Designed an active park assist system for an automatic Ford vehicle
- Created visuals and prototype for the customer to understand system behavior

**Berkley AI Pacman**
- Utilized the Pacman game to focus on the AI concepts: Probabilistic Inference, Reinforcement Learning, State-Space Search
- Automated Pacman to move and collect pellets, complete the game

**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

*Education*

**Michigan State University – B.S. in Computer Science, Minor in Japanese**
GPA: 3.72 / 4.0
September 2018 – December 2021
- Relevant Courses: Artificial Intelligence, Algorithms and Data Structures, Algorithm Engineering, Computer Organization and Architectures, Computer Networks, Database Systems, Web Design and Development, Software Engineering, Software Design

*Skills*

**Technical**
- Familiar with Python, C++, HTML/CSS, Java, MySQL, JavaScript, PHP, Node.js, Microsoft Azure, Microsoft PowerShell, Git, ARM Assembly
- Operating Systems: Windows, Mac OS, Linux

**Other Skills**
- Foreign Languages: English (native), Japanese (fluent)

*Experience*

**Michigan State University Animal Sciences – Part Time Web Developer**
May 2021 – March 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 through backend PHP
- Designed website behavior and aesthetics utilizing CSS, HTML5, and JavaScript

**Independent - English Tutor**
January 2017 – December 2021
- Tutored Japanese overseas students to learn English online using programs such as LINE and Skype

**Michigan State University Residential and Hospitality - Sparty's Store Crew Lead**
February 2019 – October 2020
- Supervised small teams in-store to perform tasks such as cleaning and stocking of the store; operating POS system

**Home Depot – Lot Associate**
June 2020 – August 2020
- Helped product into customers vehicles, collecting carts, retrieving delivery items inside the store for customer inquiries