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
- 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

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 | Algorithms and Data Structures | Algorithm Engineering | Computer Organization and Architectures | Computer Networks | Database Systems | Web Design and Development | Software Engineering | Software Design

Skills

Programming Languages: Python | C++ | HTML / CSS | PHP | SQL | JavaScript | Microsoft PowerShell | ARM Assembly | Java
Cloud-Based Technologies: Microsoft Azure
Databases: MySQL | MongoDB
Operating Systems: Windows | Mac OS | Linux
Other Technical Skills: Git | jQuery | Sass
Foreign Languages: English (native) | Japanese (fluent)

Work Experience

Michigan State University Animal Sciences, Remote | 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 through backend PHP
- Designed website behavior and aesthetics utilizing CSS, HTML5, and JavaScript

Independent, Remote | English Tutor | 01/2017 – 12/2021
- Tutored Japanese overseas students to learn English online using programs such as LINE and Skype

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