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pages

in saejinmh michionlion saeiinmh.com

courses

- Programming Language Concepts
- Theory of Computing & Formal Languages
 - Software Testing
- Interactive Entertainment
 - · Analysis of Algorithms
 - Artificial Intelligence
 - Multi-Agent & Robotic Systems
 - Independent Study (Neuroevolution)
 - Distributed Systems
 - Electronic, Internet, & Intermedia Art I, II & III
 - · Linear Algebra
- · Combinatorics & Discrete Models

languages

C, C#, C++, Crystal, Java, Golang, Python, JavaScript, HTML, CSS

tools

Adobe Creative Suite, LATEX, Unity3D, Android SDK, Git, Gradle, (Ba)sh, Linux/GNU

gpa

Major: 3.888 Minor: 3.500 Overall: 3.613

awards

Distinguished Alden Scholar Alden Scholar

interests

artificial intelligence, software development, computer visualization, game engines, interactive art, virtual reality development and human-computer interaction

education

Aug 2015 - present

Allegheny College

Computer Science Major, Studio Art Minor

Graduating May 2019

experience

Jan 2016 - present

Computer Science Teaching Assistant & Tutor

Daniel H. Wagner Associates

Allegheny College

Gradle Plugin

Meadville, PA

Student assistance and education

- Answer guestions and grade work in computer science classes
- · Help plan and create labs, develop scripts to assist with grading
- Tools utilized: LATEX, Bash

May 2018 – Aug 2018 **Software Development Internship**

Data registration for mine-like objects

- Developed and enhanced automated data registration tool
- Optimized linear algebra mathematics library
- · Tools utilized: Crystal, Bash, Git

Apr 2015 – Jul 2015

Carrden Market Android Application

Android accounting application

- Developed native Android app to support on-the-go cashiers
- Used Google Drive API to sync data across multiple tablets
- Tools utilized: Java, Netbeans, Android Studio, Android SDK

projects

Feb 2018 - present

GatorGradle

Grading tool for GatorGrader integration

 Develop Gradle plugin to integrate GatorGrader grading checks into a build.gradle configuration for easy assignment creation

· Tools utilized: Java, Gradle, Github

Sep 2017 – Dec 2017 py-battle-net

Independent Research

Python-based AI for the game Battleship using a neural network trained by a genetic algorithm

- Programmed feed-forward neural network using matrix calculations
- Developed genetic algorithm for evolving weights in a neural network
- Created terminal-based Battleship game playable by implemented AI
- · Tools utilized: Python, NumPy, Matplotlib

Nov 2016 – Dec 2016 **Doorway**

VR Art Installation

Art with Portals

- Implemented VR (stereoscopic) portal visualization
- · Created a stark and mysterious landscape with the aim of evoking a feeling of enigmatic ambedo
- Tools utilized: Unity3D, C#, SteamVR, HTC/Valve Vive SDK