

Kaden M. Kilburg

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EDUCATION

Iowa State University, *Bachelor of Science, Software Engineering*
Ames, IA

May 2022

- *Psychology Minor*
- GPA: 3.99
- 9 credits from graduate-level COM S courses

SKILLS & HONORS

- **Computer Skills:**
 - *Languages:* Python, C, C++, C#, Java, MATLAB, MIPS Assembly
 - *Web Development:* JavaScript, PHP, HTML, and CSS; React, Angular, and ZF2
 - *Tools:* TF Keras, OpenCV, MySQL, WebGL, Unity
- **Honors:** Eagle Scout, VRAC Design Challenge Winner, Intramural Wrestling Champion

EXPERIENCE

Samsung Semiconductors, *GNSS Platform Software Engineer Intern*
Cedar Rapids, IA

May 2021-Aug. 2021

- Integrated Android memory testing tools with Samsung's GNSS testing framework
- Resolved GNSS memory leaks and faults identified by said memory tools
- Submitted thorough documentation on memory tool benefits, usage, and upkeep

Collins Aerospace, *Software Engineering Intern*
Cedar Rapids, IA

June 2020-Aug. 2020

- Migrated build system for Software Defined Radios to speed compile times
- Built performance analytics webpages to better identify bugs and monitor execution time
- Practiced within an Agile work environment

Iowa State ITS WebDev, *Full Stack Web Developer*
Ames, IA

April 2019-May 2020

- Created, maintained, and debugged webpages for Iowa State University
- Assisted teammates in problem-solving and decision-related challenges
- Made use of time between projects performing code reviews and improving web programming knowledge

PROJECTS

- AI for a Multiagent Survival Game
 - Designed a tiled-based game for multiagent interactions similar to OpenAI's NeuralMMO
 - Interfaced with Ray RLlib using the PettingZoo API
 - Tested several algorithms from RLlib where Proximal Policy Optimization performed the best
- NBA Predictions AI
 - Scraped and trained on NBA statistical data from 2000 to 2021
 - Tested linear ML and deep learning models for predicting winning NBA teams
 - The best model achieved a 68% F1 score and featured an individual player statistic fed RNN
- Other:
 - Student Major Predictor
 - Simple Keras Clone
 - Rhythm Game Android App
 - Intonation Training Application
 - 4 Minor Unity Video Games
 - Electrodermal Activity Research

ACTIVITIES

Iowa State University

- Game Development Club
- Statesmen Choir
- Fencing Club
- Intramural Wrestling