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# Education

## Iowa State University of Science and Technology *Class of May 2016*

**Software Engineering**, Bachelor of Science

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# Languages

Java 3 years

C#/.NET 3 years

C++ 2 years

C 2 years

Python 2 years

HTML5 2 years

Bootstrap 2 years

JavaScript 1 year

WebGL 1 year

QT 1 year

SQL 1 year

XML 1 year

# Tools

Unity 3D 3 years

Vizard 3 years

Maya 3 years

Photoshop 3 years

Eclipse 3 years  
IntelliJ 1 year

Visual Studio 2 years

Git 3 years

Trello 2 years

Jira 1 year

Google Docs 3 years

# Soft Skills

Design Patterns

Communication

Creativity

Adaptability

Collaboration

Leadership

Project Management

Agile / Scrum

# Relevant Experience

## Full-Stack Software Developer

### *Gopher Sport Edina, MN 2018*

* Work with team to maintain four live websites
* Made bug fixes for the eCommerce websites
* Add features to their content management system

**Tools Used:** Java, Spring, JavaScript, MySQL, Thymeleaf, Broadleaf, Trello

**Project:** This job was to help work through the usual list of bugs that accompany a platform launch, as well as some new feature build-outs that were slated for inclusion shortly following the site launch. I also added custom features to the CMS that help control front-end content display.

## Robotics Lab Technician and VR Pilot

### *Osaro San Francisco, CA          2016 - 2017*

* Piloted and maintained robots
* Collected data to evaluate the machine learning experiments
* Wrote C++ and Python code to pilot robots with Vive controllers

**Tools Used:** C++, Python, and Zenhub

**Project:** The Vive robot controller project was self-given project at Osaro, a startup focused on machine learning. The goal was to develop software that allowed remote control of a robotic arm with an HTC Vive controller. C++ was used for controlling and interfacing with the robot, and Python was used for gathering and recording tracking data output and the calling the OpenVR API.

## Research Assistant and VR Developer

### *VR Navigation Laboratory Ames, IA          2013 - 2016*

* Created 3D virtual environment for VR experiments
* Wrote python scripts for Vizard to conduct studies
* Published for study on depth perception in virtual environments

**Tools Used:** Python, Vizard, and Maya

**Project:** The study was on why people underestimate distances in virtual environments. We used a replica of a real-world environment to see if it reduced the acclimation period for the virtual environment. I wrote python scripts to run the experiment and made the replica with Maya. The research paper was titled *Comparison of Two Methods for Improving Distance Perception in Virtual Reality*.

**Psychology** (Cognitive Focus), Bachelor of Science

# Projects

## AI.one

### *Random Made, LLC 2016 – 2018*

**Tools Used:** C#, Unity3D, and Trello

**Project:** AI.one is a space mystery virtual reality game developed in Unity3D. I am the producer and project owner of a multidisciplinary team. As lead, I was responsible for ensuring communication and team cohesion, making sure tasks are completed, and fulfilling any roles needed such as software engineer, software architect or technical artist.

## Senior Design Project

### *Iowa State University 2016*

**Tools Used:** Java, JDBC, Python, and SQL

**Project:** The project name given by the professor was Machine Learning and Big Data: From Data to Decision Making with Application to Advertising and Promotion of a Steam Game. The idea was to build a graph of nodes from the information gathered via the Steam’s API and crawling the user and game profiles. After feeding that information into our neural network, we would be able to determine a given game’s critical user nodes within its player base and see how much influential pressure that user puts on adjacent nodes within a cluster. Basically, it determines who are the trend setters within a group friends, and thus how to spread publicity via word of mouth the most efficiently.

## Othello

### *Iowa State University 2016*

**Tools Used:** C# and Unity

**Project:** This Unity project was done to learn about AI development, specifically the alpha pruning algorithm. This pruning technique is ideal for this game since the AI goes through all the possible moves to see what the most valuable move would be, and on the hardest difficulty the AI looks ahead 10 moves.

## Mind Maze

### *Iowa State University 2014*

**Tools Used:** C++, OpenGL, and QT

**Project:** Mind Maze was a group project for a Software Development Practices course at Iowa State. The goal was to use an EEG to register brain wave patterns as neural event triggers. We can then use those triggers to allow the user to navigate through a randomly generated 3D maze with thought.

## Mars Rover

### *Iowa State University 2013*

**Tools Used:** Embedded C, iRobot Create, Cerebot II board with an ATmega128 microcontroller

**Project:** The goal was to navigate through an obstacle course using data gathered via the various sensors mounted on the robot. We also implemented a GUI of ASCII characters to display what the robot saw on our computer console. This project taught me about pointers, bit shifting, and events.

# Additional Experience

## IT Technician

### *Proactiv IT San Francisco Bay, CA 2016*

* Set up workstations for tech companies in the Bay Area
* Was deployed to Inuit, LinkedIn, and Palantir, among others
* Lead teams and provided training for new hires

## 3D​ ​Graphics​ ​Designer

### *Department​ ​of​ ​Education Ames, IA 2015*

* Made​ ​3D​ ​assets​ ​for​ ​virtual​ ​classroom
* Created​ ​meshes​ ​and textures​ ​with Maya and ​Photoshop
* Models​ ​were​ ​donated​ ​to​ ​the​ ​open​ ​source​ ​community

## IT Intern

### *Barilla Ames, IA 2013*

* Sole on-site IT Technician in the entire plant
* Diagnosed issues and performed general hardware troubleshooting
* Lead training on computer use instruction and software tool use

## IT Technician and Help Desk

### *Iowa State University Ames, IA 2011 - 2016*

* Built computer labs for both faculty and student use
* Provided customer service as helpdesk and answering tickets
* Developed system for deploying hardware and software

## Caretaker

### *JBConsumer Choices Option Newton, IA 2009 - 2010*

* Ensured the health and social well-being of adult with several severe disabilities
* Aided with activities of daily living including grooming, toileting, and communication skills
* Maintained contact with family members involved in care

## Crew Member

### *Culver’s Newton, IA 2008 - 2009*

* Handled cash and completed orders in a timely manner
* Excellent multi-tasker
* Delivered exceptional customer service