ALEC HODGKINSON

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PROFILE:

A motivated developer with strong interest and expertise in machine learning and mixed reality. Hands-on experience training machine learning models, and building augmented reality apps.

EDUCATION:

Rensselaer Polytechnic Institute (RPI), Troy, NY   Anticipated Graduation Date: December 2016

Bachelor of Science in Math, Minor in CS   GPA: 3.30/4.0

EXPERIENCE:

Junior - Technical Apprentice   *06/2016 - 08/2016*

- Architected the backend for a collaborative music recommender system using a NOSQL database, the Spotify API, and git for source control.
- Built a neural network using the Keras library to classify user preferences based on previous listening habits.

ZELDA/I - Project Leader   *01/2016 - 06/2016*

- Wrote a script to train a neural network to play *The Legend of Zelda: Ocarina of Time*.
- Implemented the interface for the genetic algorithm to interact with an emulator.
- Built the neural network and genetic algorithm to train the network.

Panorama Perspectives - Project Leader   *08/2016 - 09/2016*

- Led mobile AR project team to create the design specification showing the history of the Empire State Plaza.
- Prototyped, developed, and tested mobile web app using Argonjs, Three.js, and javascript.

Rensselaer Design Build Fly - Vice President   *08/2014 - 06/2016*

- Organized club activities and ensured teams/members fulfilled their assigned duties.
- Supported design process by searching airfoil database, converting airfoils into usable file types, and providing analysis.
- Solved a multiparameter optimization problem which was used in the design process.

RELEVANT COURSEWORK:

Machine Learning from Data, Database Mining, Mobile AR design, Introduction to Algorithms, Data Structures, Linear Algebra, Numerical Computing, Modeling and Analysis of Uncertainty, Intro to AI, Cognitive Modeling, Introduction to Linguistics, Probability Theory, Mathematical Analysis 1

RELATED SKILLS:

Languages: Python, C++, JavaScript, Lua, MATLAB, LaTeX

Operating Systems: Linux, Mac, Windows

Other Technologies: Git, NX 9.0, Orcad/PSpice, KiCad, Microsoft Office