Nathan Epstein

6008 Anniston Rd Bethesda MD 20817, USA (+1)240-899-9806 | nate2@umbc.edu Website: https://aeium.github.io/blog

Technical Skills

Languages: C, C++, OpenCL, Cuda, Python, Matlab, Javascript, Java, LaTex

Databases: LMDB, MongoDB

Other Skills: Linux (use, remote use, admin), Deep Learning (Caffe, Tensorflow, Theano, Keras), Parallel Processing (OpenCL on multi-GPU, Cuda, SLURM), Data Wrangling, Web Development (JavaScript front-end, Javascript or

Python back-end)

Education

University of Maryland Baltimore County

B.S. In Computer Science Cumulative GPA: 3.36 / 4.00 Baltimore, MD Class of 2016

Projects

Ready, Set, Go!

- Predicting Go Moves using Convolution Neural Networks and the Caffe framework
- Directed group project, designed experiment and network, wrangled and procedurally expanded dataset

RSA Public Key Factoring

- Large Integer Factoring for RSA Encryption on High Performance Cluster
- Gained experience with high per cluster and SLURM, learned RSA encryption and associated number theory

Ready Set Go (Part 2)

- Learning and Visualizing Go using Structure vs Noise Classification
- Assembled and maintained deep learning system, developed methods to visualize network state and learning.
- Video presentation link (5 min version): https://www.youtube.com/watch?v=-Yrwyu6z3V8

Complete Five-Neighbor Automata Survey

- Survey of 4.3 Billion Cellular Automatons for edge of chaos complexity multi-gpus via OpenCL
- Learned to use OpenCL and AMDAPPSDK for large computational tasks. Found edge of chaos automations

Experience

Zenimax Media Company, Bethesda Softworks

Quality Assurance Intern

Rockville, MD July 2011-12

- Developed methods to find and reproduce bugs in game systems for Elder Scrolls V: Skyrim, which won several Game of the Year awards

Kaji.tech

Chief Technology Officer

Baltimore, MD

- Designed and developed cloud based computer vision documenting processing system

Feb2016-Present

Dec 2013-2016

Other Experience

UMBC Go Club

UMBC

Core Member and President

- Achieved Shodan (1-dan) American Go Association (AGA) Rating in tournament play
- Organized Go Club meetings, Go related events with other student clubs
- Organized a regional AGA Tournament in 2014

Link https://www.usgo.org/news/2014/11/daniel-chou-tops-umbc-tourney/