Stephanie Oh

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Employment

Sept 2016 - **Fellow**, *Startup.ML*, Oakland, CA.
- Debug existing LSTM TensorFlow code for financial trading predictions.
- Set up and train, using TensorFlow, a deep Q-learning network, with experience replay and epsilon-decay, a reinforcement learning model for financial synthetic trading.
- Configure end points of TF model with client's computation framework for running jobs.
- Contribute insight and mentoring to improve process of product development at fellowship.
- Study and create blog posts about research papers pertaining to reinforcement learning.
- Brain storm and create wireframes for tools for machine learning packages

2015 - 16 **Manager of Education Software Technology**, *Wolfram Research*, San Francisco, CA.
- Manage and grow a remote group of developers working on education-focused technologies such as the Wolfram Problem Generator, Wolfram|Alpha math content and Wolfram|Alpha step-by-step.
- Create and execute product roadmaps for Wolfram's educational tools, such as expanding the college-level math content for Wolfram|Alpha.
- Manage, edit and create education content such as programming challenges, Wolfram|Alpha math content, and exercises for a introductory programming book.
- Integrate company's tools with existing classroom technologies, such as Wolfram|Alpha Add-on for GoogleDrive
- Solve backend development problems such as user data management, cloud deployment and automated code-grading.
- Lead development and content meetings with CEO, Stephen Wolfram, and other groups.
- Interview, hire and train new developers in the company's tools and development language.

2013 - 15 **Developer**, *Wolfram Research*, Boston, MA.
- Developed continuously deployed revenue generating math content for `wolframalpha.com`, in particular for Step-by-step problem solving.
- Exhibited and presented at education and software development-based conferences.
- Developed random math problem generation for Wolfram Problem Generator.
- Taught Topology, and Graph Theory at a summer camp for high school students.

2012 - 13 **Teaching Assistant**, *Purdue University*, West Lafayette, IN.
- Ran recitation sessions, quizzes and tests for various Calculus courses.

Computer skills

Proficient	Mathematica, Python
Deep Learning	NumPy, pandas, scikit-learn, TensorFlow, Reinforcement Learning, Deep Q-learning, LSTM, RNN, CNN
Miscellaneous	Microsoft Office, Linux, LaTeX, Camtasia, R, Git, AWS, Containers

Education

2013 **MS in Mathematics**, *Purdue University*, *3.6/4.0*.
Recipient of fellowships for outstanding PhD-track students.

2011 **BA in Mathematics with Honors**, *Northwestern University*, *3.64/4.0*.
Honor thesis on Expander Graphs (2011)
Recipient of merit scholarships for outstanding academic achievement.

2009-2010 **Budapest Semesters in Mathematics**, Budapest, Hungary.

2007 **High School Diploma**, *The Hill School*, Pottstown, PA.

Professional Affiliations and Development

2015 Exhibitor and speaker at DeveloperWeek as part of GirlDevWeek

2011 Presented at the Joint Mathematics Meeting on Expander Graphs

2010 NSF funded research on Expander Graphs with professor Darren Long at UCSB.

2008 Selected for and attended Carleton College's Summer Math Program for Women.

Languages

Native English, Korean

Basic French, German

Extracurricular

Interests: Powerlifting, snowboarding, playing the piano, and cooking.