

KHOA HO

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EDUCATION

Grinnell College

Expected May 2018

B.A., Double Major in Physics/Mathematics, Minor in Neuroscience

Grinnell, IA

- **GPA:** 3.7 / 4.0
- **Honors:** Dean's List, Major Honor Track

PROJECTS

Deep Learning

April – September 2017

- Classifying household object images in the CIFAR-10 dataset using Convolutional Neural Network
- Applying Sequence-to-Sequence model to translate English to French
- Generating Simpson TV script with Long Short Term Memory (LSTM) networks
- Generating hand-written digits and celebrity faces using Deep Convolutional Generative Adversarial Network

WORK EXPERIENCE

Full-Stack Development Intern

May – August 2017

College Kickstart (Pleasanton, CA)

- Implemented new features on admission statistics reporting, using LAMP Stack and JQuery, to improve high school counselors' workflow
- Extended the SQL database and the UI to support custom GPA types and admission statistics for each client

Science Division Student Representative

August 2016 – Present

Campus Curriculum Committee (Grinnell, IA)

- Provided recommendations for and oversight of the curricular program and vision of the college
- Led an initiative on expanding interdisciplinary coursework and research among students and faculties

Teaching Assistant

February 2015 – May 2017

Physics Department (Grinnell, IA)

- Mentored General Physics students, graded their work, and discussed teaching strategies with professors
- Assisted more than 100 hours of lab by setting up equipment, explaining procedures, and troubleshooting

RESEARCH EXPERIENCE

Research Assistant

May – August 2016

Solid State Physics Lab (Grinnell, IA)

- Synthesized new rare-earth intermetallic single-crystals using the flux method
- Analyzed and visualized, using Python, the magnetic susceptibility and electrical resistivity data

Research Intern

October – November 2012

RF & Microwave Lab - National Metrology Center (Singapore)

- Studied high-precision measurements and the construction and maintenance of standards
- Automated data collection and processing from atmospheric sensors through LabVIEW programming

Research Intern

November 2011 – February 2012

Nanomaterials Research Lab - National University of Singapore (Singapore)

- Investigated how laser pruning and the addition of quantum dots affect CdSSe nano-rods and nano-belts
- Examined optical and morphological changes using PL and Raman spectroscopy

SKILLS

- **Programming Proficiency:** Java, C, Python, LAMP Stack, JavaScript
- **Machine Learning:** NumPy, Scikit-Learn, TensorFlow, Keras, Google Cloud, AWS

ACTIVITIES

- Led a 1-week canoeing trip for 12 students in Buffalo River, Arkansas
- Facilitated a 1-week hiking and mountaineering expedition for 20 students in Indian Himalayas
- Taught underprivileged middle schoolers English and helped build a local library in Nanchang, China