Brunston Poon

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Web
http://brunston.io/
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Related Experience

Intern with Dr. Geoff Mathews   June 2015 - Present
University of Hawaii at Manoa
Writing stellar spectra data extraction and analysis CLI software in Python using numpy, Pillow and matplotlib, called stellarPYL (http://st.bpbp.xyz/). Data gathered using a self-built inexpensive data-collection setup. Paper currently being drafted with goal of submission to AJP.

Content Assistant, Contractor   August - October 2013
Khan Academy
Conducted multimedia quality assurance for Khan Academy Online Educational Platform video content, ensuring high standards of quality for Khan Academy education.

Technology Intern   August 2013
The Nueva School
Executed organizational methodology and assisted in moving and installing A/V equipment at both campuses.

Intern, Discovery Lab   June - July 2013
Khan Academy
Filmed and edited videos for Discovery Lab. Assisted with implementation of project-based learning at Discovery Lab (including Arduino-based robots). Designed curriculum worksheets for Discovery Lab guest lecture on base 2, logic gates, and computer systems under major time constraint - displaying adaptability and quick-footed thinking. Youngest paid intern hired by Khan Academy (as of July 2013).

Coursework & Personal Projects

Development Experience   Current
2+ years experience in Python, numpy, scipy, and pillow. Set up and currently administering LAMP stack with SSL certificate enabled. Apache VirtualHost, DigitalOcean virtual servers, DNS, SSH, and OpenVPN experience.

Data Science Coursework   September 2015 - March 2016
Learned data manipulation and exploratory data analysis using R.

Artificial Intelligence Coursework   September 2014 - June 2015
Created and implemented machine learning / genetic blackjack algorithm in Python. Explored paradigms in Common LISP concerning algorithm optimization.

Other Experience

Teaching Assistant @ Nueva Summer   June 2014 - August 2014
The Nueva School
Assumed Lead Teacher position with 30 minutes notice, creating and adapting curriculum to lead three-hour classes of 20 students. Created and used poetry curriculum through methodical design thinking processes to foster innovative learning and emphasize students untapped creativity.

Education

St. Paul's School, Class of 2016
2014/2015 Thomas Penrose Bennett Prize winner   President, Guild of Carillonneurs
2015 Dickey Prize in Astronomy   2016 Engineering Honors Scholar