Alexander Guziak

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330 De Neve Drive RV455A Los Angeles, CA 90024

Education:

University of California, Los Angeles

- Years of study: September 2015- June 2019 (Anticipated graduation date)
- Anticipated major: Physics; Anticipated Minor: Bioinformatics

Oracle Certified Associate: Java SE7 Programmer I

- Exam taken 09/09/2015; Score: 86%

Skills

Machine Learning and Data Science

Programming Languages: C, C++, Java, CUDA C, Python, Objective-C, Swift

Miscellaneous: COMSOL, MATLAB, HTML, JavaScript, CSS, Foundation Framework, Mobile Application Development (Android and iOS), and various web technologies

Experience:

UCLA Electrical Engineering Department, Ozcan Lab

- (October 2015 – June 2016) Undergraduate Researcher, worked in small team to develop a mobile, cost effective yeast imaging and classification platform that leveraged lens-free microscopy and machine learning.
  - Co-author: Rapid, portable and cost-effective yeast cell viability and concentration analysis using lens-free on-chip microscopy and machine learning (Lab on a Chip, Royal Society of Chemistry)
  - Co-author: Yeast viability and concentration measurements using lens-free computational microscopy and machine learning (SPIE)
- (July 2016 – Current) Working in a small team to build a massively multi-threaded image processing algorithm capable of rapid identification of trypanosome cells in blood samples.
  - Algorithm leverages GPU parallel processing via CUDA C
  - Assisting in designing accompanying field portable imaging platform by physically modelling platform physics in COMSOL

UCLA Association for Computing Machinery

- (July 2016 – Current) Artificial Intelligence Committee Officer, working with a team of fellow students to spread knowledge regarding AI and machine learning
  - Give workshop presentations to fellow students regarding key AI/ML topics
  - Discuss research papers in regular reading groups

Daily Bruin Online

- (October 2015 – Current) Contributor tasked with implementing various flat pages and data visualizations primarily using HTML, CSS, JavasScript, JQuery, D3, and various other web technologies; selection of projects:
  - Flat page: All Abroad
  - Flat page: Athleisure
  - Data visualization: Campaign Contributions from the UCs

Model United Nations at UCLA

- (June 2016 – November 2016) Undersecretary of General Assemblies for BruinMUN 2016, tasked with assisting with the organization of a high school Model UN conference with over 1600 students in attendance, hosted on UCLA's campus over several days.