William Cannon Lewis II

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EDUCATION

RICE UNIVERSITY

Cumulative GPA: 3.911 / 4.0

BS in Computer Science
Expected May 2018 | Houston, TX
School of Engineering
Major GPA: 3.968 / 4.0

BA in Mathematics
Expected May 2018 | Houston, TX
School of Natural Sciences
Major GPA: 3.887 / 4.0

LINKS

Github:// **cannon10100**
LinkedIn:// **cannonlewis2**
Twitter:// **@that_cannon_guy**

SOME COURSEWORK

COMPUTER SCIENCE

Algorithmic Thinking (Teaching Asst)
Fundamentals of Computer Engineering
Introduction to Program Design
Functional Programming (Teaching Asst)
Introduction to Computer Systems
Principles of Parallel Programming
Object Oriented Programming
Operating Systems
Algorithmic Robotics (Graduate level)
Machine Learning (Graduate level)
Physical Computing (Graduate level)

MATHEMATICS

Honors Calculus 3 & 4 (Teaching Asst)
Complex Analysis
Honors Real Analysis
Honors Linear Algebra (Teaching Asst)
General Topology
Abstract Algebra I, II, & III

SKILLS

PROGRAMMING

Proficient
Java • Python • Scala
• Ruby • C/C++ • Shell
• Common Lisp

Familiar
HTML • Javascript • CSS • PHP
• Groovy • Haskell

RESEARCH

KAVRAKI LAB | Research Assistant

Januay 2017 - Present | Rice University, Houston, TX

- Worked with graduate students to adapt TMKit, a Task and Motion Planning framework, to a new robot and to multi-arm manipulation.
- Researched the application of modern machine learning and classical artificial intelligence methods to robotics.

WAH CHIU LAB | CPRIT Undergraduate Research Fellow

May 2015 – Aug 2015 | Baylor College of Medicine, Houston, TX

- Researched various modern methods in electron microscopy, electron tomography, molecular biology, and subcellular oncology
- Developed and improved software in the EMAN2 tomography library using Python and C++ (http://blake.bcm.edu/emanwiki/EMAN2)
- Tested various micrograph filtering methods
- Wrote and presented a poster on my findings regarding pre- and post-filtering of electron tomograms

WORK EXPERIENCE

RICE IT DEPARTMENT | Student Computer Consultant

Jan 2015 – Present | Houston, TX

- Assisted students and faculty at Rice with computer repairs, virus scans, data backup, and software installation
- Helped to maintain and improve a Linux-based system of connected Drobo bays
- Provided consultation for common computer problems and hardware purchases

RICE MATH & CS DEPARTMENTS | Teaching Assistant

Aug 2015 – Dec 2016 | Houston, TX

- Led "Help Sessions" to assist students with homework assignments
- Clarified lecture material
- Graded homework assignments

TWO SIGMA | Software Engineering Intern

May 2016 - August 2016 | New York City

- Worked as a software engineer embedded in a statistical research team
- Implemented various statistical analyses as scripted aggregations in Elasticsearch using Groovy
- Designed and built RESTful web frontend for statistical tools using HTML/CSS/Javascript and Python/Tornado

RACKSPACE | Software Development Intern I & II

July 2012 – Aug 2012, May 2013 - Aug 2013 | San Antonio, TX

- Migrated several internal Rails 2 apps to Rails 3
- Collaborated with a fellow intern to revamp an internal campus map app using Sinatra
- Rewrote parts of billing software in Java to make use of actor-based parallelism

AWARDS

2017	University	Rice Undergraduate Scholars Program
2016, 2017	Regional	Excellence in Collegiate Journalism - Critical Review
2015	Regional	CPRIT Summer Undergraduate Fellowship
2014-Present	Top 30% GPA	Rice University President's Honor Roll