

Cannon Lewis

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EDUCATION

RICE UNIVERSITY

Cumulative GPA: 3.916 / 4.0

BS IN COMPUTER SCIENCE

Expected May 2018 | Houston, TX

School of Engineering

Major GPA: 3.992 / 4.0

BA IN MATHEMATICS

Expected May 2018 | Houston, TX

School of Natural Sciences

Major GPA: 3.832 / 4.0

LINKS

Github:// [cannon10100](https://github.com/cannon10100)

LinkedIn:// [cannonlewis2](https://www.linkedin.com/in/cannonlewis2)

Twitter:// [@that_cannon_guy](https://twitter.com/that_cannon_guy)

COURSEWORK

COMPUTER SCIENCE

Computational Thinking

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

Reasoning About Algorithms

Algorithmic Robotics

MATHEMATICS

Honors Calculus 3 & 4 (Teaching Asst)

Complex Analysis

Honors Real Analysis

Honors Linear Algebra (Teaching Asst)

General Topology

Abstract Algebra I

Abstract Algebra II

SKILLS

PROGRAMMING

Proficient

Java • Python • Scala

• Ruby • C/C++ • Shell

Familiar

HTML • Javascript • CSS • PHP •

Typescript • Groovy • Haskell

WORK EXPERIENCE

RICE MATH & CS DEPARTMENTS | TEACHING ASSISTANT

Aug 2015 – Present | Houston, TX

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

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

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 II

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

RACKSPACE | SOFTWARE DEVELOPMENT INTERN I

July 2012 – Aug 2012 | San Antonio, TX

- Rewrote parts of billing software in Java to make use of actor-based parallelism
- Collaborated with two fellow interns using agile methodology

RESEARCH

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

AWARDS

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