

# Gerald F. Wu

COMPUTER SCIENCE · APPLIED MATHEMATICS

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## Skills

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**Programming:** Java, C++, OCaml, Racket, C, Processing, Shell scripting, SQL\*Plus, Python, Javascript, HTML/CSS

**Virtualization:** QEMU/KVM, Oracle VirtualBox, VMWare Fusion

**Other:** GNU/Linux Systems Administration, Proficiency in major OS's (UNIX, Windows, macOS), LaTeX, Git

## Education

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### Brown University

*Providence, Rhode Island*

MAJOR: COMPUTER SCIENCE, APPLIED MATH

2017 - PRESENT

2017-2018 **CS**, 0170: An Integrated Introduction | 0180: An Integrated Introduction

2017-2018 **APMA**, 0350: Applied Ordinary Differential Equations | 0360: Applied Partial Differential Equations I

2017-2018 **MATH**, 0350: Honors Calculus (Multivariable) | 0540: Honors Linear Algebra | 1530: Abstract Algebra

### Thomas Jefferson High School for Science and Technology

*Alexandria, Virginia*

HIGH SCHOOL EDUCATION

2013 - 2017

- GPA: 4.37 – AP Computer Science with Data Structures, Parallel Computing, Computer Systems Research

## Experience

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### Fairfax Collegiate

*Reston, VA*

TEACHING ASSISTANT

*Jun. 2017 - Aug. 2017*

- Summer enrichment program for elementary and middle school students
- Taught classes focused around hardware/software development

### Physics Tutor

*McLean, VA*

PRIVATE TUTOR

*Jul. 2017 - Aug. 2017*

- Covered AP Physics C: Mechanics – included homework, assessments, and lecture captures

### Smithsonian Institution

*Washington D.C.*

INTERN

*Jun. 2016 - Aug. 2016*

- Created metadata extraction tool (Java/shell scripts)
  - Reads metadata from files in an ingest folder and populates an Oracle database with the data
- Created metadata ingestion tool (Java)
  - Automatically processes spreadsheets within ingest folders and populates Oracle database
- Tools are widely used by curators on Institution-wide datasets

### Smithsonian Institution

*Washington D.C.*

INTERN

*Jun. 2015 - Aug. 2015*

- Created two-part data integrity program for Smithsonian Digital Asset Management System
  - Ingested MD5 data and wrote to an Oracle database, and verifies data integrity at a later date

### SmartNoter LLC

*Fairfax, Virginia*

MOBILE APP CONTENT CREATOR AND APPLICATION TESTER

*Jun. 2014 - Aug. 2014*

- Produced educational videos using Camtasia
- Worked with program managers to test application functions and improve user interface and experience

### Science Olympiad

*Longfellow Middle School*

MENTOR

2013-2017

- Met with teams on a weekly basis – prepared lesson plans, gave lectures, administered tests
- Teams have won top awards at the state level every year