

Gerald F. Wu

COMPUTER SCIENCE · APPLIED MATHEMATICS

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Skills

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

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

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