

Austin Prince

Washington University in St. Louis

B.S. Computer Science

GPA 3.56/4.00

Fall 2016 - Spring 2018

Eckerd College

B.A. Physics

GPA 3.63/4.00

Fall 2013 - Spring 2016

PROFILE

Interdisciplinary thinker seeking to make a positive difference in my community using computational tools. Diverse technical and professional skill set from broad educational background in both the liberal arts and technical fields.

CONNECT

206.359.0332

amorrisprince@gmail.com

github.com/amprince13

AWARDS

1st Place: WashU Google Games '17

Deans List: Spring 2015 - Fall 2017

SKILLS

PROGRAMMING LANGUAGES

Java, JavaScript, Python, PHP, Swift, C++

WEB TECHNOLOGIES

HTML5, CSS, Django, Node.js, Flask, d3

DATA SCIENCE

scikit-learn, Python Pandas, MATLAB

DESIGN

Sketch3, Wireframing

DATABASES

MySQL, Firebase, MongoDB, AWS

EXPERIENCE

COMPUTER SCIENCE TEACHER

January 2019 - Present

@ Tilden Preparatory School

- Teach high school math and computer science courses in a one on one environment
- Develop personalized lessons plans geared towards mastery
- Develop game based computer science curriculum using in both Java and Python

COMPUTATIONAL BIOLOGY INTERN

June - August 2016

@ Institute for Systems Biology, Seattle, WA - Nathan Price Lab

- Identified key reactions for reverse engineering organisms to contribute to research in alternative energy sources
- Implemented gap filling algorithm leading to more efficient exploration of metabolic pathways in model
- Contributed to existing project exploring biofuels using methanogen

MICROFLUIDICS RESEARCHER

May - June 2015

@ Brandeis University, Waltham, MA - Seth Fraden Lab

- Created microfluidics chips from a new type of polymer, focusing on high throughput methods of production
- Decrease production time of microfluidic chips by 40% through creation of new bonding method
- Implemented creation of COC polymer chips to decrease cost

PERSONAL PROJECTS

3D BUILDING VISUALIZATION

October 2019

- Developed a web visualization to highlight buildings in downtown San Francisco owned by a major steel manufacturer
- Used OSMBuildings JavaScript library to create a 3d map
- Added functionalities such as building highlight and building search

ALZHEIMERS GENE RECOGNITION

April 2018

- Identified genes that contributed to occurrences of Alzheimer's disease in patients
- Worked with gene expression dataset of 200 patients over 8000 genes
- Implemented random forest classifier in Python and identified candidate genes that contributed to Alzheimer occurrence

PHOTOSTASH

May 2018

- Developed iOS app that allows users to automatically share photos between devices
- Optimized uploading and fetching data from Firebase database, decreasing load time by 90%
- Designed NoSQL database to decrease latency