

Tristrum Tuttle

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EDUCATION

UNIVERSITY OF PENNSYLVANIA

BACHELOR OF SCIENCE IN

ENGINEERING, COMPUTER SCIENCE

Expected May 2019 | Philadelphia, PA

Cum. GPA: 3.1

FAIRVIEW HIGH SCHOOL

SUMMA CUM LAUDE, 2310 SATs,

NATIONAL HONOR SOCIETY, AP

SCHOLAR WITH DISTINCTION,

NATIONAL MERIT SCHOLAR

Grad. June 2015 | Fairview, PA

Cum. GPA: 4.0

LINKS

Github:// [triton11](#)

LinkedIn:// [tristrum](#)

COURSEWORK

UNDERGRADUATE

CIS 120 Programming Languages and Techniques

CIS 160 Intro to Discrete Math

CIS 196 Ruby on Rails

CIS 121 Data Structures and Algorithms

CIS 262 Automata, Computability and Complexity

ESE 190 Silicon Garage (Arduino and microcontrollers)

SKILLS

PROGRAMMING

Over 5000 lines:

Java • Python • Ruby on Rails • OCaml

HTML/CSS • Arduino • \LaTeX

Familiar:

JavaScript • iOS • Android • MySQL

PERSONAL

Model UN: Serve as Committee Chair of a yearly International Model UN conference for Montessori students in NYC

Other: Penn Running Club • Penn for Privacy • Future of Humanity Society • Casual Chess Player • Intramural Soccer • Wilderness Survival

EXPERIENCE

LINGUISTICS DATA CONSORTIUM PROGRAMMER

June 2016 - present | Philadelphia, PA

- Write python scripts that parse web pages in different languages for use in big data analysis.
- Contributed over 300 commits to the LDC github repository.

AUTISM TELEMEDICINE COMPANY INTERN

May 2016 - present | Philadelphia, PA

- Built a web app in Ruby on Rails to streamline the process of buying online Autism Telemedicine diagnostic tests.
- Wrote scripts in Java to parse large databases of physician emails using the Selenium web driver.

MOELIS ACCESS SCIENCE CS CURRICULUM DIRECTOR

October 2015 - present | Philadelphia, PA

- Develop curriculum for teaching computer science to K-8 students.
- Teach programming using Scratch by MIT to classes of 20+ students at several West Philadelphia K-8 schools.

CAMP FITCH COMPUTER CAMP INSTRUCTOR

Summers of 2015, 2016 | Youngstown PA

- Created new curriculum to teach advanced Python to advanced campers.
- Teach advanced Python to 4th-8th grade campers - topics included recursion, graphics, git, and networks. Final project involved designing a game in Pygame.
- Lead a daily wilderness survival course for 20-30 K-8 campers.

PROJECTS

FREEMED MEDICAL STERILIZER 2015 - 2016 | Erie, PA

- Designed and 3D printed devices to sterilize medical utensils in developing countries.
- Consulted physicians, entrepreneurs, and materials scientists to improve the initial prototype.
- Featured on multiple news networks and was a finalist in the 2015 PA JOBS 1st challenge. Links: [News Expo Video](#) | [Design Process Video](#)

HACKATHON PROJECTS 2016 fall, winter | Philadelphia, PA

- Won "Best use of Epic API" award at McGill Hacks.

ARDUINO PROJECTS 2014, 2016 | Philadelphia, PA

- 2014-2015: Designed and programmed a computer-controlled robotic arm using Arduino and Processing (a Java Sketchbook).
- 2015-2016: Built a WiFi-enabled doorbell that sends emails to alert its user when someone has pressed it, and can be controlled via Bluetooth.

OTHER

- 2016 (Summer): Built a Rails web app for Model UN conferences that allows users to draft resolutions, vote on resolutions, and send messages to one another.