

Tristrum Tuttle

<http://triton11.github.io>
tristrumtuttle@gmail.com | 814.431.3238

EDUCATION

UNIVERSITY OF PENNSYLVANIA
MSE, COMPUTER SCIENCE, GPA 3.3
Graduated May 2019 | Philadelphia, PA
BSE, COMPUTER SCIENCE, GPA 3.4
Graduated May 2019 | Philadelphia, PA

FAIRVIEW HIGH SCHOOL
SUMMA CUM LAUDE, 2310 SATS,
NATIONAL HONOR SOCIETY, AP
SCHOLAR WITH DISTINCTION,
NATIONAL MERIT SCHOLAR
Grad. June 2015 | Fairview, PA

SKILLS

Experienced:

Java • JavaScript (NodeJS, AngularJS) •
Scala • Android Development • Python •
Ruby on Rails • SolidWorks • REST APIs •
C++ • Scikit-learn • Kotlin

Familiar:

Swift • MySQL • OCaml • Arduino •
MongoDB • MATLAB • ROS • C#

MSE COURSEWORK

CIS 501 Computer Architecture • CIS
511 Theory of Computation • CIS 519
Applied Machine Learning • CIS 541
Embedded Systems • CIS 545 Big Data
Analytics • CIS 550 Databases • CIS 553
Networked Systems • STAT 571 Modern
Data Mining • IPD 515 Product Design •
EAS 545 Engineering Entrepreneurship

INTERESTS/CLUBS

PClassic Organizer (programming
competition for high school students) •
Penn for Privacy (organize seminars
promoting internet privacy and
protection) • Future of Humanity Society
(weekly discussion group on AI safety) •
Casual Chess Player • Intramural Soccer •
Wilderness Survival • Admin a 20,000+
member facebook page for UPenn

LINKS

LinkedIn:// [tristrum](#)
Github:// [triton11](#)
Website:// triton11.github.io

EXPERIENCE

CIBO TECHNOLOGIES INTERN, EXPLORATORY DATA ANALYSIS
May 2018 - August 2018 | Cambridge, MA

- Implemented bayesian statistical analysis of data using **ScalaStan**, an open-source Scala library for building Stan models
- Added features to **EvilPlot**, an open-source Scala data visualization library
- Built a web dashboard using **ScalaJS**, **ScalaTags**, and **PostgreSQL**

CIS 195 ANDROID DEVELOPMENT LECTURER, CIS 195
August 2018 - May 2019 | Philadelphia, PA

- Give weekly lectures on Android Development in **Kotlin**
- Design curriculum, grade homework assignments and host office hours

ULTIMATE SOFTWARE INTERN, R+D TEAM
May 2017 - August 2017 | Weston, FL

- Collaborated on the design of new features for UltiPro
- Prototyped potential new products using **Angular JS**, **Node JS**, **docker** and **MongoDB**
- Built an app for the ethnography team to organize and transcribe interviews automatically

LINGUISTICS DATA CONSORTIUM PROGRAMMER
June 2016 - December 2016 | Philadelphia, PA

- Wrote **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 - December 2016 | Philadelphia, PA

- Built a web app using **Ruby on Rails** and the Stripe API 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 - May 2018 | Philadelphia, PA

- Develop curriculum for teaching computer science to K-12 students
- Teach programming using Scratch (developed by MIT) and Python to classes of 20+ students at several West Philadelphia K-12 schools

PROJECT HIGHLIGHTS

For a full list of projects, see my website: <http://triton11.github.io>

- **Characterize It (2019)**: In-depth analysis of gender stereotypes and character alignment of comic book characters using Amazon's Mechanical Turk, **Scikit-learn** machine learning libraries, and python data visualization libraries.
- **Platoon Dynamics (2018-2019)**: Worked with four other students to develop an algorithm for platooning heavy-duty vehicles on highways, along with a simulation tool for visualizing the platoons and a platform to analyze and display fuel savings. Built using **Redis**, **Pygame**, and **Node JS** - M&T Summit Finalist