

Tristrum Tuttle

<http://triton11.github.io>
tut@seas.upenn.edu | 814.431.3238

EDUCATION

UNIVERSITY OF PENNSYLVANIA
MSE, COMPUTER SCIENCE, GPA: 3.4
BSE, COMPUTER SCIENCE, GPA: 3.7
Expected 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 • OCaml • SolidWorks •
REST APIs • C++ • Kotlin

Familiar:

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

COURSEWORK

CIS 120 Programming Languages and
Techniques • CIS 121 Data Structures and
Introduction to Algorithms • CIS 160
Intro to Discrete Math • CIS 195 Android
Development • CIS 196 Ruby on Rails •
CIS 240 Introduction to Computer
Systems • CIS 262 Automata,
Computability and Complexity • CIS 320
Algorithms • CIS 350 Software Design
and Engineering • CIS 541 Embedded
Systems • CIS 545 Big Data Analytics •
CIS 553 Networked Systems • IPD 515
Product Design

INTERESTS/CLUBS

PClassic Organizer • Penn for Privacy •
Future of Humanity Society • Casual
Chess Player • Intramural Soccer •
Wilderness Survival

LINKS

LinkedIn:// [tristrum](#)
Github:// [triton11](#)

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
Fall 2018 | 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

- Developed 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

PROJECTS

- Aldeator (2017): Creates project ideas using IBM Watson's NLP, Markov Chaining and Google's API - Finalist in the AI category at Ultimate Software's "48 Hours" Hackathon
- Penn Course Creator (2017): Used multiple linear regression to create an app that estimates the difficulty of potential courses at Penn by analyzing course titles
- EmergeAlert (2016): Android/iOS messaging app for emergency situations with Slack integration and NLU - Won "Best use of Epic API" award at McGill Hacks