COLTON WOLK

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EDUCATION

Tufts University, Medford, MA   **May 2022**
GPA: 3.9, Dean's List
B.S. in Computer Science and B.A. in Chinese
Relevant Courses: Algorithms, Artificial Intelligence, Machine Learning, Linear Algebra, Computational Geometry

Princeton Day School, Princeton, NJ; Cum Laude Society   **Jun. 2018**
Courses taken at Princeton University: Intro to CS, Algorithms and Data Structures

SKILLS

Tools: Git, Github, Linux, Xcode, Android Studio, Firebase, LaTeX, Scikit Learn, Adobe Creative Cloud, Microsoft Office

Languages: C, C++, Java, Python, MATLAB, React, React Native, JavaScript, Node.js, HTML, CSS

EXPERIENCE

Tufts Computational Geometry Lab; Research Assistant   **Aug. 2020 – Present**
- Discover optimal algorithms for the reconfiguration of self-assembling modular robots
- Program visualizations and an interface for testing reconfiguration techniques

ALIAS Technology, Georgetown, DE; Machine Learning Intern   **May. 2020 – July 2020**
- Implement syntactic authorship identification for forensic linguistics consulting
- Build python scripts to predict authorship of unknown documents and classify documents among authors using logistic regression, SVM, Naive Bayes, and other approaches in Scikit Learn

T-TRIPODS Institute DIAMONDS Research Program, Boston, MA; Research Assistant   **Jun. 2020 – Aug. 2020**
- Collaborate with researchers on self-assembling robots in an NSF-funded data science program

USDA Human Nutrition Research Center, Boston, MA; Research Intern, Software Engineer   **Apr. 2019 – Present**
Project 1: Mobile App Development
- Develop an iOS and Android app for the Energy Metabolism Laboratory with React Native
- Design an algorithm for monitoring adherence to weight-loss diets with guidance of the Lab Director
- Present progress to scientists and adapt features to accommodate suggestions of lab members
Project 2: Machine Learning
- Create a program to predict the severeness of calorie misreporting in meals using ML approaches
- Apply network to lab studies to correct error-prone calorie reporting data
Project 3: Scientific Review Paper
- Collaborate with scientists across multiple universities to write a literature review
- Write about and research new technologies to improve the accuracy of dietary intake assessment

COMP 160: Algorithms; Teaching Assistant, Recitation Co-leader   **Jan. 2020 – Present**
- Run weekly recitations with 25+ students; hold weekly office hours; design/grade assignments and exams

LEADERSHIP

Tufts Computer Science Exchange; President   **Nov. 2019 – Present**
- Manage Tufts CS club which hosts monthly events and biweekly meetings
- Oversee CS Dept. events and Tufts hackathons, including Polyhack and ID Hack
- Communicate student concerns to deptartment; act as bridge between students and faculty

Polyhack; Chair of Committee, Director of Hackathon   **Sept. 2019 – Present**
- Coordinate the university-wide hackathon hosted yearly; 300+ attendees in Oct. 2019
- Communicate with tech firms and other sponsors to raise upwards of $15,000
- Build and manage the 10-person Polyhack Committee, allocate tasks to members

Tufts Daily; Executive Copy Editor   **Apr. 2020 – Present**
- Direct the largest section of the student newspaper; participate in executive board meetings
- Supervise 30+ copy editors and approve article changes; edit articles for style and grammar