Derick Yang

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EDUCATION

Tufts University **Medford, MA**
Bachelor of Science in Computer Science and Applied Mathematics *Expected May 2018*
3.94/4.0 GPA, Dean's List, National Merit Scholar
Relevant Coursework: Programming Languages, Computation Theory, Machine Structure and Assembly Language, Abstract Algebra, Real Analysis I and II, Probability, Statistics, Abstract Linear Algebra, Discrete Math, Web Programming, Data Structures

SKILLS

Programming Languages: C++, C, JavaScript, Python, Java, MATLAB, HTML, LaTeX, CSS (LESS, Sass)
Software: Git, Unix, Mac OSX, Windows, MS Office
Frameworks: NodeJS, MongoDB, Express, AngularJS, Bootstrap, Flask, Jasmine
Languages: Mandarin Chinese (fluent: speaking, proficient: reading, writing), French (conversant)

EXPERIENCE

Embark Corporation **New York, NY**
Software Engineering Intern *May 2016-August 2016*
- Designed and implemented adaptive scoring algorithm to match prospective students with institutions
- Deployed code weekly to client-facing application, utilizing AngularJS, NodeJS, Express, and MongoDB

Tufts University **Medford, MA**
Human-Robot Interaction Laboratory Researcher *September 2015-May 2016*
- Developed software for intelligent robots in collaboration with graduate researchers and professors
- Utilized Java to build databases of actions for robots to perform under certain conditions

CipherHealth **New York, NY**
Software Engineering Intern *January 2016*
- Developed and designed client-facing product help webpage using HTML, JavaScript, and CSS
- Collaborated with accounts team members to analyze trends within hospitals

University of Rhode Island **Kingston, RI**
Electrical Engineering Research Assistant *May 2015-August 2015*
- Designed, created, and implemented artificial intelligence and machine learning algorithms
- Analyzed high-dimensional datasets using dimensional reduction and classification techniques in Python

PROJECTS AND CONTRIBUTIONS

Mongoose (2016): Contributed to the open-source Mongoose object modeling library
Meal Swipe Exchange (2016): Created web app in Angular and Node for students to exchange meal swipes
Dining Hall Comparator (2016): Developed web app comparing current meals at Tufts dining halls
Tufts Web Scraper API (2016): Created data scraping API used by approx. 10 teams for Tufts class projects
Universal Machine (2016): Developed 14-instruction UM in C, simulating arbitrary Turing machine
Image Manipulator (2016): Developed command line interface in C for manipulating images

LEADERSHIP AND ACTIVITIES

Tufts Club Tennis, *President* *September 2014-Present*
- Led Tufts team to qualify for national championship – only Division III school in New England to qualify
- Organized first annual Tufts-hosted regional collegiate club tennis tournament

JumboCode, *Member* *September 2016-Present*
- Develop web-based ticket marketplace using Flask for Talloires Network nonprofit

William Lowell Putnam Mathematical Competition, *Participant* *September 2015-Present*
Tufts Sino-US Relations Group Engagement (SURGE), *Member* *September 2015-Present*
Tufts Financial Group, *Analyst* *September 2014-May 2015*