Derick Yang

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EDUCATION

Tufts University   **Medford, MA**
Bachelor of Science in Computer Science and Mathematics   *Expected May 2018*
3.95/4.00 GPA, Dean's List, National Merit Scholar
Coursework: Data Structures, Discrete Math, Machine Structure and Assembly Language, Programming Languages, Computation Theory, Databases, Web Programming, Abstract Algebra, Real Analysis I and II, Probability, Statistics, Abstract Linear Algebra

SKILLS

Programming Languages: JavaScript, Python, C++, C, Java, MATLAB, HTML, LaTeX, CSS
Frameworks/Tools: Git, Node.js, Flask, MongoDB, AngularJS, React/Redux, React Native, Bootstrap
Language: Mandarin Chinese (fluent: speaking, proficient: reading, writing)

EXPERIENCE

The MathWorks, Inc.   **Natick, MA**
Software Engineering Intern   *May 2017 – Present*
- Design, implement, and test data inspector and debugger tool for domain modeling
- Develop user-friendly web interface to manipulate data at runtime in MATLAB, C++, and JavaScript projects
- Facilitate migration of internal teams to performance enhancing framework

Embark Corporation   **New York, NY**
Software Engineering Intern   *May 2016 – August 2016*
- Designed and implemented adaptive scoring algorithm to match prospective students with schools
- Developed full-stack features in production web application using AngularJS, Node.js, and MongoDB
- Created and integrated end-to-end test suite for web application with Jasmine and Protractor

Tufts University   **Medford, MA**
Research Assistant   *September 2015 – May 2016*
- Utilized Java Swing toolkit to build GUI for robot action editor
- Developed software for intelligent robots in collaboration with graduate researchers

University of Rhode Island   **Kingston, RI**
Electrical Engineering Research Assistant   *May 2015 – August 2015*
- Implemented multilayer neural networks and support vector machines to classify images
- Analyzed high-dimensional datasets using dimensional reduction and classification techniques in Python

PROJECTS AND CONTRIBUTIONS

Collaborative Radios (2017): Build React Native app for real-time radios with WebSockets, Spotify, and Cron
Fake News Detector (2017): Trained naive Bayes classifier, performed sentiment analysis to classify articles
Tufts Dining Web Scraper API (2016): Created RESTful API in Python for ~10 teams to use in class project
Meal Swipe Exchange (2016): Created web app in Angular and Node for students to exchange meal swipes
Mongoose (2016): Contributed to the open-source Mongoose object modeling library

LEADERSHIP AND ACTIVITIES

Tufts Club Tennis, *President*   *September 2014 – Present*
- Led Tufts team to qualify for national championship as one of two Division III schools in the country
- Organize 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

Tufts Financial Group, *Analyst*   *September 2014 – May 2015*