TIMOTHY M. LEE

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EDUCATION

Stanford University **Stanford, CA**

M.S. in Biomedical Computation, B.S. in Computer Science (Artificial Intelligence / Biocomputation) and Chemistry *June 2017*

GPA, Graduate: 4.04 / 4.00

- Relevant Coursework: CS224N, CS224W, CS245, CS246, CS274, CS279, BMI212, BMI215, BMI217, STATS 315B

GPA, Undergraduate: 4.03 / 4.00

- Terman Engineering Award (Top 5% Engineering), President's Award of Excellence (Top 3%)
- Relevant Coursework: CS124, CS145, CS194, CS221, CS229, CS262, EE364A, STATS200, STATS205, ME210

Arcadia High School **Arcadia, CA**

Overall GPA: 4.00 / 4.00 *June 2012*

- International Chemistry Olympiad US Team First Alternate
- 3x US National Chemistry Olympiad Top 20 Finalist

WORK EXPERIENCE

Heartflow **Redwood City, CA**

Biomedical Imaging Algorithms Engineer *July 2017 – Present*

- Developing deep learning and image processing infrastructure to extract an anatomical model of a heart derived from CT images to determine the severity of coronary artery disease.

Zazzle **Redwood City, CA**

Software Engineering Intern *June 2016 – August 2016*

- Created framework in C# to calculate online product customization metrics for over 30 million products entries, leading to production ready deployment onto Zazzle's marketing team.

Stanford Department of Computer Science **Stanford, CA**

Research Assistant under Professor Andrew Ng *June 2015 – January 2016*

- Analyzed customer behavior in supermarkets by video analysis through convolutional neural network (CNN) models to inform retail performance metrics

Stanford Department of Computer Science **Stanford, CA**

CURIS Research Intern under Professor David Dill *June 2014 – August 2014*

- Designed and implemented software to complement material used in CS 103: Mathematical Foundations of Computing

PROJECTS AND ACTIVITIES

Course Assistant, Stanford University

- Assisted CS221: Artificial Intelligence with Professor Percy Liang by hosting weekly office hours, tutoring and grading
- Assisted CS245: Database System Principles with Professor Peter Bailis by hosting weekly office hours, tutoring and grading

Tree Search: Stanford Football Team Recruiting Program

- Created a web application that handles information from over ten thousand potential recruits of the Stanford Football team. Tasks include transforming unstructured data into structured relational data, involving computer vision and machine learning techniques. Partnership with Stanford Football and CS 210

Diagnosis of Parkinson's Disease through Eye Movement Recording

- Designed a simple test for Parkinson's Disease (PD) by recording patient's eye movements and applied machine learning techniques to correlate test metrics to PD

Robotics Replica of BB-8

- Created a true-to-size replica of BB8, a character from Star Wars with the ability to display personality and navigate around obstacles through voice commands and an iOS app. Developed using Raspberry Pi and Arduino microcontrollers

SKILLS AND INTERESTS

- **Skills:** Proficient in Python, C++, C, C#, R, Matlab, Java, Javascript, Arduino, Ruby on Rails
- **Interests:** Puzzle Hunts, Board Games, Languages, Guitar