Long Nguyen
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EDUCATION

Massachusetts Institute of Technology (MIT)
S.B. in Electrical Engineering & Computer Science

2015 - 2019
GPA: 4.6/5.0

* Fall 2017

> 6.828 / Operating System Engineering*
> 6.046 / Advanced Algorithms*
> 6.036 / Machine Learning*

> 6.033 / Computer Systems Engineering
> 6.005 / Principles of Software Construction
> 6.004 / Computer Architecture

> 6.042 / Math for Computer Science
> 18.03 / Differential Equations
> 18.06 / Linear Algebra

EXPERIENCE

Electronics & Telecommunications Research Institute – Research Intern
Summer 2017 / Daejeon, South Korea

> Using natural language processing techniques, trained a neural network to over 80% accuracy in 9-class sentiment analysis.
> Applying other machine learning techniques and statistical analysis to generate natural, adaptive movements and gestures in simulated/physical robotics. Using Python.

Brain Power – UI/Product/Software Design Intern
Winter 2017 / Cambridge, MA

> Worked with software team to implement a Google Glass app used for children with autism. Used Unity/C#.
> Delegated and worked on design tasks that led to 50% faster prebeta shipment.
> Mocked up wireframes and designed graphical assets to revamp the company's software suite. Used Illustrator, Sketch, and Photoshop.

VisionTech Camps – Lead Instructor
Summer 2016 / Saratoga, CA

> Taught 20+ students programming fundamentals—conditional logic, data structures, basic algorithms.
> Instructed students in object-oriented programming through Minecraft modding. Used Java.

Pacific Coast Kids – Engineering Counselor
Summer 2016 / Palo Alto, CA

> Assisted children ages 5-8 with engineering concepts such as levers and motion through LEGO-building.
> Worked with classrooms of 15 to 20 students.

Stanford Department of Geological Sciences – Data Science Intern
Summer 2013 / Stanford, CA

> Gathered fossil data from multiple volumes of treatises on echinoderms (marine animals).
> Analyzed data and correlated 98% significant patterns of extinction to echinoderm history. Used R.

PROJECTS

Congressional Records & Mathematics
Summer 2017

> Independent case study with machine learning on two public datasets from UC Irvine. Used Python.
> Conducted analysis and trained a neural network to 53% accuracy on a large, high-dimensional dataset, with over 90% accuracy on the other dataset.

Personal Website
Spring 2017

> Designed responsive website for photography portfolio. Used HTML/CSS/Javascript.
> Website includes a dynamically-generated blog made with the `jekyll` framework.

Email Lists | 6.005 Final Project
Spring 2017

> Capstone project; implemented a web interface to define/customize email lists.
> Specs, coverage, unit testing, and design methodology all brought together. Used Java.

SKILLS

> Highly skilled: Python, Java, LaTeX, Git
> Proficient: HTML, CSS
> Prior experience with: JavaScript, R, C#