SHUBHANG DESAI

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EDUCATION

Stanford University – *Expected Graduation Date: June 2020*
- B.S. Candidate in Computer Science; GPA: 3.77/4.0
- Featured Coursework: Convolutional Neural Networks for Visual Recognition (CS 231n), CS + Social Good Studio (CS 52), Web Applications (CS 142), Programming Abstractions Accelerated (CS 106X), Design Thinking Studio (ME 377)

SKILLS

Languages: Python, C/C++, Swift, JavaScript, Java; **Machine Learning:** PyTorch, Keras, TensorFlow, NumPy, Pandas, OpenCV
Web Dev: ExpressJS, AngularJS, Node.js, jQuery, HTML/CSS; **Mobile:** Android SDK, iOS/Swift; **Databases:** MongoDB, MySQL, Postgres

WORK EXPERIENCE

Machine Learning Intern – *NASDAQ*, *Summer 2017*
- Singlehandedly designed the entire architecture of Neural Network for our customer attrition and market prediction models
- Built and trained cutting-edge, predictive Machine Learning models on large sets of historical financial data

Research Fellow – *IDEO CoLab*, *January 2017*
- Prototyped three business models in nine days to solve the problem of facilitating future connected markets using Blockchain
- Led all technical aspects of product prototyping on my team; delivered three business models and respective products to IDEO

Research Assistant – *Stanford Artificial Intelligence Lab (SAIL)*, *2017-2018*
- Worked with SAIL on Language Translation (NLP) project throughout Freshman year; doing research on AI applications in healthcare in Fall 2017

Staff Writer (Published) – *Google's Artists and Machine Intelligence Publication*, *Summer 2017-Current*
- Write tech articles on AI applications in art; published article on Neural Style Transfer that has over 100 Claps on Medium

Software Engineering Intern – *State Farm Insurance*, *Summer 2016*
- Singlehandedly designed and developed an iOS app which could run a neural network directly on the phone
- Led Intern Website Dev Team, used Agile concepts to lead 20 developers of various skill levels to build website using AngularJS

Founder/CTO – *Iottaa*, *2016*
- Founded startup which develops a tool for ideation, organization, and implementation of creative projects: http://iottaa.co

PROJECTS

Arbitrary Neural Style Transfer – PyTorch implementation of novel convolutional neural network that can transfer the style of many paintings onto one picture. The end-to-end training of the architecture was the *first time the feat had ever been achieved on this task.*

Krikos – Barebones NumPy neural network micro-framework; open-sourced and published on Python Package Index (PyPI)

Personal Blog – Tech blog where I write articles on Machine Learning: https://shubhangdesai.github.io/blog/

Commuter Chicago – Android app published in Google Play Store to help Chicago commuters: http://tinyurl.com/CommuterChicago

TECH ENDEAVORS & LEADERSHIP

Founder/Team Lead – *AI + Social Good, 2017-2018*
- Founded workshop series on ML applications to social entrepreneurship; create teaching content and manage team

Teaching Team Member – *CS + Social Good Studio (CS 51+52), 2017-2018*
- Creating teaching content and structure as part of Curriculum team; teaching Design Thinking methods in class

Officer – *Business Assn. of Stanford Entrepreneurial Students, 2016-2017*
- Organized and taught workshops, including a workshop on web design and development, as Officer in club's tech arm

Hackathon Enthusiast – *2015-Current*
- HackMIT 2017, TreeHacks 2017, CalHacks 2016, IDEO Makeathon 2016, RedbirdsHacks 2015, and State Farm HackDay 2015

AWARDS

NASDAQ Best App, CalHacks 2016: for stock price prediction neural network; invited to NASDAQ NYC to present project to CTO and got my team's picture on NASDAQ Times Square billboard

State Farm "Celebrate My Drive" Contest: for driving safety mobile app; won my high school a $100,000 grant