

Morgan Bryant

email: mrbryant@alumni.stanford.edu/

github: github.com/taoketao/

personal site: <https://taoketao.github.io>

Stanford Computer Science B.S. Graduate Seeking Software Engineering Engineering Job

Core Skills and Experiences

Front-End Web Development	Proficient in modern tools (such as Typescript, React, Node) to build web apps
Back-End Software Engineering	Proficient in Python, SQL databases, AWS server remote computing
Data Science and Machine Learning	Building ML-driven data collection and analysis pipelines in industry and university
Deep Learning	Experienced deep learning researcher and engineer, specialties in RL and Attention
Scientific Research	Comfortable with statistical, technical, human behavioral experimentation
Stanford University Student	Computer Science Undergraduate

Highlighted Projects

Front-end database portal providing access nontechnical employees via a custom web application

Back-end machine learning suite for analyzing and optimizing interactions between users and web media content

Deep machine learning undergraduate thesis

- *Frames of Reference for Neural Pathfinding Navigation*: Do artificial neural networks model human spatial cognition?
- Developed and trained deep reinforcement learning networks using Tensorflow

Lab-affiliated Machine learning investigations in frontier DeepRL models, LSTM RNNs, CNN, and Attentional systems

Research in learning psychology with PDP lab

- Build and deployed web-based experiments and end-to-end data analysis pipeline to better understand human behavior
-

Technical Positions

Computer Science and Programming subject Tutor, Teacher, Curriculum Designer // 2021

Lab Researcher // Parallel Distributed Processing Lab // Stanford Department of Psychology // 2016—2020

Undergraduate Student // Computer Science // Stanford University // Conferred June 2019

- Artificial Intelligence concentration. Coursework in computer science, data science, statistics, applied math, machine learning, liberal arts. Masters program work in Symbolic Systems.

Computer Vision Intern // Magic Leap // Mountain View, CA // 2017

Machine Learning Intern // Trove // San Francisco, CA // 2016

Software Developer and Full-Stack Engineer at many angel-stage tech startups since 2014

Specific Competencies

- I am most fluent in Python (7 years regular usage) and Javascript (4 years regular usage)
- *Deep learning*: backpropagation, artificial neural network, RNN, LSTM, GRU, CNN, GraphConv, RL Reinforcement Q-learning, A3C, AlphaGo, GANs, RAM, NTM, ResNet, GTP-3
- *Machine learning*: supervised and unsupervised learning, regression, classification, prediction, clustering, image segmentation, natural language processing, computer vision, robotics, modeling, data analysis
- *Python 2.7 and 3.4-3.6*, pip, IPython, Jupyter, Numpy, Scipy, Sci-Kit Learn, Matplotlib, Tensorflow, Keras, PyTorch
- *Web programming*: HTML, CSS, PHP, JavaScript, Typescript, RESTful APIs, JSON, XML, Ajax, Node.js, React
- *Databases*: SQL, AWS Amazon Web Services, big data computing, distributed remote cluster computing
- *Other tools*: Linux, Windows, Mac OSX, unix; bash, Git, Docker; C++, C#, Java, Matlab
- 3D printing, VR Virtual Reality, AR Augmented Reality
- Computational cognitive science, theoretical neuroscience, human psychology, linguistics, and 3D spatial cognition
- In free time, I enjoy studying Tae Kwon Do (1st degree black belt), practicing guitar, and learning abstract math