

Andrew Huang

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EDUCATION

Stanford University (GPA: 4.0)

Bachelor of Science in Computer Science

Stanford, CA

June 2020

Thomas Jefferson High School for Science and Technology (GPA: 4.55)

Alexandria, VA

SKILLS

- Advanced knowledge of machine learning, deep learning, and learning theory
- Strong skills in Java, Python, C, C++, as well as TensorFlow, Pytorch, and scikit-learn for machine learning
- Familiar with JavaScript, SQL, Swift, CSS and HTML, cloud computing, and Unix/Linux environments
- Strong knowledge of algorithms, data structures, probability/statistics, and mathematical analysis

EXPERIENCE

Epoch Investments, Inc.

New York, NY

Quantitative Research Intern

June – August 2018

- Started firm's AI program, built first sets of NLP applications for financial texts, laying groundwork for future projects
- Produced pipelines for data mining/processing and machine learning for analysis of financial documents
- Constructed deep classifiers for extracting important text from financial documents 1000x faster than an analyst
- Designed and implemented a fast, abstractive reinforcement learning model to summarize long financial documents
- Developed user-friendly tools to visualize change in language over time, clustering phrases from similar topics

Stanford Machine Learning Group

Stanford, CA

Research Assistant under Professor Andrew Ng

January 2018 - Present

- Performed cutting-edge deep learning research with applications in radiology, pathology, and public health
- Carried out studies for validation and deployment of state-of-the-art chest neural network-based X-ray abnormality detector with Stanford Medical School and healthcare providers in the US, Tanzania, and the Congo
- Implemented 3D neural networks for predicting acute pulmonary embolism from chest CT data at level of radiologist
- Built convolutional neural networks to detect bone-scan abnormalities with radiologist level performance, with applications in cancer diagnosis

Northrop Grumman Corporation

Herndon, VA

Software Engineering Intern

June – September 2017

- Worked in an Agile-like team environment of 15+ developers to build a cloud-based mission system
- Led redesign of large web application from object-oriented to functional framework (wrote 1000+ loc, saved 1500+)
- Worked with SVN version control system as part of CI/CD lifecycle (10+ features pushed to production)

Business Association of Stanford Entrepreneurial Students: bGarage

Stanford, CA

Team Member

September 2016 – April 2017

- Worked alongside a tech startup building novel software for online collaboration (<https://usermotif.com/>)
- Responsible for developing business plans for various vertical markets

Fellowship at National Institutes of Health

Bethesda, MD

Summer Intern

June - August 2015

- Performed research under field-leading researcher regarding novel cell secretion pathway implicated in Parkinson's
- 10-week internship, presented research at an NIH symposium, which later contributed to a paper in *Nature*

NOTABLE PROJECTS

Stanford University

- *Machine Learning*
 - Developed models to predict sovereign default from publicly available data, outperformed S&P credit ratings
 - Built model that given a Twitter account and topic, generates tweets like those of selected user on that topic
- *Computer Systems*
 - Implemented a heap allocator as a class project. (malloc, free, and realloc functionality)
 - Built MapReduce system for parallel and distributed computing
 - Built a Unix shell, RSS Feed Aggregator, industrial-grade web proxy, and threadpool in C

HOBBIES: Hot sauce enthusiast, sports statistics nut, occasional stand-up comedian