ASHTON TENG

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Education

Stanford University *Sep 2018 - present*

- M.S. Biomedical Informatics, expected June 2020. GPA 4.0/4.0.
- Coursework in computational biology, translational bioinformatics, statistical inference, mining massive datasets, natural language processing with deep learning, patent law.

University of California, Berkeley *Sep 2014 - May 2018*

- B.A. Computer Science, B.A. Cognitive Science. GPA 3.9/4.0.
- Coursework in data science, machine learning, algorithm design and analysis, data structures, machine structures, software engineering, genetics, genomics, cell biology, neurobiology, neuroscience, linear algebra, statistics, probability.

Skills

- Python (numpy, scipy, matplotlib, seaborn, pandas, tensorflow, scikit-learn, etc), Java, C, Bash, SQL.
- Django, Ruby on Rails, PostgreSQL, HTML5, CSS3, Javascript, Docker, AWS Ecosystem | Linux, Unix, Windows, Git.
- Adobe Photoshop, Adobe AfterEffects, Final Cut Pro | Native in Mandarin Chinese, English. Intermediate French.

Relevant Experience

Incoming Software Engineer Intern (Biomedical Data Pipeline Infrastructure), GRAIL *June 2019*

Data Science Research Assistant, Williams PanLab, Stanford University *Feb 2019 - present*

- Analyzes large healthcare datasets (Optum) to address questions around the distribution of depression and it's impact on work and health. Collaborative project between Prof. Leanne Williams (Neuroscience) and Prof. Jeffrey Pfeffer (Business).

Software Engineering and Computational Modeling Intern, Koniku *Jun - Sep 2018*

- Koniku merges silicon chips with synthetic neurobiology to create sensing devices far superior to electronic noses.
- Built data ingestion, processing, visualization and analysis pipelines for calcium imaging and neuroelectric data on AWS.
- Built full-stack web applications (Django, PostgreSQL, Elastic Beanstalk) for storage and visualization of biological data.
- Filed patent related to Koniku's sensing device. *ashtonteng.com/docs/koniku.pdf*

Research Software Development Intern, Microsoft *May 2017 - Aug 2017*

- Built NLP models in Tensorflow for question answering, used in Bing search engine to deliver concise and accurate answers directly to the user via answer boxes. *ashtonteng.com/docs/microsoft.pdf*

Full-Stack Developer, BerkeleyMarketPlace, UC Berkeley *Aug - Dec 2017*

- Followed rigorous Agile methodology to build a C2C trading platform for the UC Berkeley community with Ruby on Rails+Cucumber+Capybara. Team won 1st Place and Best UX Design awards in 150-person Software Engineering class.

Data Engineer, Language Exchange Program, UC Berkeley *Jan 2017 - Jan 2018*

- Developed high-speed graph algorithm to match ~500 language exchange participants. Shortened 30+ hours manual process to <1 second. *github.com/ashtonteng/MaxMatch*

Research Assistant, Mark D'Esposito Cognitive Neuroscience Lab, UC Berkeley *Jan 2016 - Jan 2018*

- Developed algorithms to analyze data from TMS+fMRI experiments to discover connectivity patterns between brain areas. OHBM 2017 Poster "The Thalamus Mediates Interactions Between Large-Scale Cortical Functional Networks".

Research Assistant, Jack Gallant Computational Neuroscience Lab, UC Berkeley *Apr 2016 - Sep 2017*

- Used NLP models from fMRI data to decode language semantics representation in the brain across languages.

Leadership & Teaching

Chinese Entrepreneur Organization, Stanford University (Core Member) *ceoceo.org* *Sep 2018 - present*

- Organizes entrepreneurship-related events with prominent startups and VCs.

Neurotechnology at Berkeley (co-Founder, President) *facebook.com/neurotechberkeley* *Aug 2016 - May 2018*

- Led 10-person team that plans workshops, hackathons, talks about biosensing technology for 100+ general members.

Association of Chinese Entrepreneurs, UC Berkeley (Vice President) *Aug 2016 - May 2018*

- Organized monthly entrepreneurship talks, startup company visits, socials. Led 2017 Startup Trip to Shenzhen and Beijing, conversations with founders of 20 influential startups including DJI, Didi Chuxing, Zhihu, ofo, SenseTime, KLOOK, Keep.