ALEX TSUN

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EXPERIENCE

Machine Learning and Relevance Engineer Intern
LinkedIn
Jun 2019 – Sep 2019 Sunnyvale, CA

- JYMBII (Jobs You May Be Interested In) AI team, working on representation learning using BERT and Tensorflow.

Machine Learning and Relevance Engineer Intern
LinkedIn
Jun 2018 – Sep 2018 Sunnyvale, CA

- Worked on recommending daily budgets to job posters (advertisers).
- Implemented an end-to-end offline training and evaluation pipeline using an internal machine learning tool and Spark Scala.

Data Scientist, Analytics, Intern
Facebook
Jun 2017 – Sep 2017 Menlo Park, CA

- Implemented a pipeline to regularly run PCA and K-means clustering on a large dataset, using Hive, Presto, Python, and other internal tools.

Software Engineering Intern
Google
Jun 2016 – Sep 2016 Mountain View, CA

- Designed and implemented a multi-stage pipeline starting from collecting data from ads serving logs to computing a score used for evaluating creatives within an ad group, using Flume, C++, SQL, and other internal tools.

Course Assistant
Stanford University School of Engineering
Apr 2019 – Jun 2019 Stanford, CA

- CS 109: "Probability for Computer Scientists" for one quarter.

Undergraduate Teaching Assistant
Paul G. Allen School of Computer Science & Engineering (UW)
Sep 2015 – Jun 2018 Seattle, WA

- CSE 312: "Probability for Computer Scientists" for nine quarters.
- Selected to win the Bob Bandes Memorial Student Teaching Award.
- Prepared and gave lectures in professor's absence to 100+ students.
- Prepared and led "advanced topics" sessions, on material not typically seen in the course.

Undergraduate Research Assistant
University of Washington
Mar 2017 – Jun 2018 Seattle, WA

- Part of various research projects including constructing a database of graphs, studying the behavior of random walks on the unit circle, and reading theoretical machine learning papers.

EDUCATION

M.S. Computer Science – Spec. in Artificial Intelligence & Theoretical Computer Science
Stanford University **GPA: 4.06**
Sep 2018 – Jun 2020 Stanford, CA

B.S. Computer Science
B.S. Statistics
B.S. Mathematics (Comprehensive)
University of Washington **GPA: 3.92**
Sep 2014 – Jun 2018 Seattle, WA

LANGUAGES

Java | Python | C++ | SQL | R

COURSEWORK

Computer Science

- Machine Learning for Big Data
- Computer Vision
- Artificial Intelligence
- Natural Language Processing
- Probabilistic Graphical Models
- Learning Theory
- Randomized Algorithms & Probabilistic Analysis
- Incentives in Computer Science
- Reinforcement Learning
- Optimization & Algorithmic Paradigms
- The Modern Algorithmic Toolbox

Mathematics & Statistics

- Linear & Convex Optimization
- Fundamental Concepts of Analysis
- Topology & Differential Geometry
- Modern Algebra
- Combinatorial Theory
- Statistical Machine Learning
- Applied Statistics & Experimental Design
- Applied Regression & Analysis of Variance
- Stochastic Processes