

ALEX TSUN

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EXPERIENCE

Course Assistant

[Stanford University School of Engineering](#)

📅 Apr 2019 – Present 📍 Stanford, CA

- CS 109: “Probability for Computer Scientists”.

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.

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

Deep Generative Models

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