Michael Zhang

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EDUCATION

University of California, Berkeley

B.A. in Computer Science, Mathematics, and Economics

GPA: 4.0/4.0, SAT: 2400, Regents and Chancellor's Scholar (awarded to top 1% of incoming class) •

EXPERIENCE

Palantir Technologies

Forward Deployed Software Engineer Intern

- Did exploratory data mining and analysis on millions of rows of data using unsupervised (hierarchical, k-means clustering) and supervised machine learning (random forests) and econometrics (differences in differences). (Java, Python, Spark, Pandas, Numpy, Scipy, Scikit-Learn)
- Designed data schema and architected metric pipeline, organizing a team of 10 to execute. (Java, Spark)
- Built custom analytics dashboards. (Java, PostgreSQL, CSS) •
- Ideated and researched multiple new workflows, and led team of 9 to prototype them for a demo. (Java) •
- Worked on ad hoc strategy consulting with client. Helped with system administration. Helped onboard full time hires. •

Redfin

Software Developer Intern

- Implemented new version of UI widget on main listings page. (Dojo Toolkit, LESS) •
- Refactored backend on widget to use new data serialization format to improve performance and extensibility. (Java, Spring, Hibernate)
- Developed embeddable widget for third party sites, optimized for SEO. (HTML, CSS, Javascript)
- Created internal analytics dashboard to monitor performance. (Python, Java, APIs, PostgreSQL) •

UC Berkeley Economics Department

Research Assistant

Berkeley, CA

- February 2014 May 2015
- Assisted in design and execution of empirical economic studies with Professor Stefano DellaVigna.
- Examined literature and helped design a randomized controlled trial related to evaluating expert predictions.
- Reviewed literature in the economics of media and the empirical pricing behavior of firms.

MIT Mathematics Department

Research Intern

- Conducted graduate level research in representation theory and algebraic geometry while in high school.
- 2011 Siemens Competition Regional Finalist: one of top 96 STEM students in US for research. Top prize was \$100k. •
- Presented at conferences, coauthored paper with Prof. Pavel Etingof.

Ross Mathematics Program, Ohio State University

Junior Counselor

• Tutored elite math students from around the world in number theory and abstract algebra.

PUBLICATIONS AND PREPRINTS

Poisson Traces in Positive Characteristic (w/Y. Chen, P. Etingof, and D. Jordan) arXiv:1112.6385v1 [math.SG], Submitted to Journal of Applied and Pure Algebra.

TECHNICAL SKILLS

Fluent: Python, Java Proficient: Javascript, Scheme, C, MIPS Assembly, HTML/CSS, LaTeX, Apache Spark, Git, Vim, Unix, SQL Exposure: Dojo Toolkit, Hadoop, R, LESS, Stata, Bash

TECHNICAL COURSEWORK AND LANGUAGES

Math: Theoretical Linear Algebra, Abstract Algebra, Real Analysis, Complex Analysis, Multivariable Calculus, Number Theory, Probability Theory, Differential Topology, Stochastic Processes, Econometrics, Applied Econometrics (current) Computer Science: Structure and Interpretation of Computer Programs, Data Structures, Computer Architecture, Algorithms, Databases (current), Operating Systems (current) Languages: Mandarin Chinese (Native Speaker)

Cambridge, MA

January 2011 – January 2012

Columbus, OH

Summer 2011

Palo Alto, CA

Expected May 2017

May - August 2015

San Francisco, CA

May – August 2014

Berkeley, CA

2012