Dhruvik Parikh

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Education

- **Stanford University** — Palo Alto, CA
  Bachelor of Science in Computer Science; 4.06 GPA — *Sept. 2018 - June 2022(expected)*
  CS Coursework: Data Structures & Algorithms, Computer Systems, Probability, Discrete Math, Machine Learning, Databases, Natural Language Processing, Modern Algorithms, Computer and Network Security, Market Design
- **Henry M. Jackson High School** — Mill Creek, WA
  Valedictorian; 4.00/4.00 GPA; President/Founder of Mu Alpha Theta, Quiz Bowl Captain — *Sept. 2014 - June 2018*

Experience

- **Kalshi** — San Francisco, CA
  Software Engineer — *Jan 2020 - present*
  - **Exchange infrastructure**: Building Kalshi's core exchange infrastructure from the ground up. Focusing on building a scalable and low latency trade execution mechanism. Joined the team as the 3rd engineer.
  - **Market surveillance**: Leading the design of Kalshi's surveillance platform. Applying advanced machine learning and statistical methods to detect illegal trading activity on Kalshi's exchange.
- **Microsoft** — Redmond, WA
  Software Engineer Intern — *June 2019 - Sept 2019*
  - **Outlook Web**: Developed new drag-and-drop functionality to integrate Outlook Mail and Calendar into a unified communications and time management platform. Shipped the feature at the conclusion of my internship to Outlook's worldwide enterprise release.
- **Stanford Center on Food Security and the Environment** — Palo Alto, CA
  Machine Learning Research Assistant — *March 2019 - June 2019*
  - **U.S. Crop Type Hindcasting**: Wrote machine learning models to predict crop types from satellite data and weather covariates in order to facilitate longitudinal study of food security trends.
- **Voya Sol** — Palo Alto, CA
  Lead Software Engineer — *Jan. 2019 - June 2019*
  - **Network Architecture Design**: Designed a peer-to-peer solar energy sharing system for communities in Zimbabwe where users can harness solar energy and trade it on a market with their neighbors.
  - **PCB Design**: Developed a highly-scalable charge controller for a solar-powered micro-grid system for urban customers in Zimbabwe to gain consistent 24/7 access to electricity. Implemented these technologies in 16 early-adopter communities in Zimbabwe over the summer.

Projects

- **SiloML (2020)**: SiloML is a platform that enables people to share secure datasets in a privacy-preserving manner and researchers to train machine learning models on these datasets using the federated learning paradigm and differential privacy
- **Flython (2020)**: Flython (foreign language Python) is a website that makes programming more accesible by letting people write "Python" code that uses words and script from their own native languages instead of English.
- **Locale (2019)**: Web app that helps people who are relocating to a brand new city find the ideal neighborhood for them to begin their home search.

Awards and Honors

- **2019 Forbes 30 under 30**: Energy
- **2018 Intel International Science & Engineering Fair**: Grand Award Winner ($50k Scholarship) and Best in Category
- **2017 Research Science Institute**: Top Scholar
- **2017 Washington State Science and Engineering Fair**: 1st Place
- **2016 Washington State Mathematics Competition**: 1st Place

Skills

- **Languages**: Python, Go, C++, JavaScript, C, Java, SQL
- **Technologies**: React, Tensorflow, SciPy, Django, TypeScript, MobX, Firebase, Spark, AWS, Azure