William Henry Hakim

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Current Address

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Education

Oxford University	**Oxford, UK**
M.St. in Chinese Studies.	9/14–8/15

Harvard University — **Cambridge, MA** — 9/10–6/14

A.B. *magna cum laude* with Highest Honors in East Asian Studies, Computer Science. 3.8 GPA.

John P. Reardon Jr. '60 Award, presented to Harvard's all-around most outstanding male scholar-athlete.

Work Experience and Accomplishments

Avalanche Insights — **San Francisco, CA (Remote)**

Senior Software Engineer — 10/21–Present

- Contributed to Avalanche Insights' platform with a particular focus on efficient storage, access patterns, and CRUD operations for tree-like data structures in PostgreSQL
- Tech: Python (Django, Pandas, Numpy, Celery, Scikit-Learn); Javascript (React); Postgres; Docker; AWS (ECS, Fargate, RDS, AmazonMQ, S3)

The Information — **San Francisco, CA**

Senior Software Engineer — 4/19–10/21

- Implemented core features, including The Information's mobile payments infrastructure, a personalized content recommendation system based on users' past activity, and an in-house system for conducting A/B tests
- Built statistical models to predict users' propensity to subscribe and churn
- Tech: Ruby on Rails; Javascript (React, Node.js); Python (Pandas, Numpy, Scikit-Learn, Keras); Postgres; Heroku; Redis

The Shorenstein Center at the Harvard Kennedy School — **Cambridge, MA (Remote)**

Research Software Engineer — 11/17–4/19

- Built the Single Subject News Team's open source email benchmarking tool, a web app which allows media organizations to benchmark the performance of their email marketing efforts using a custom suite of data science metrics.
- Built microservices for Harvard's Information Disorder project. Microservice functionality includes OCR, image comparison, text processing, and entity detection.
- Tech: Python (Flask, Asyncio, Pandas, Celery, Kombu, Numpy); Javascript (Node.js); Postgres; Docker; AWS (EC2, Elastic Beanstalk, S3, RDS, SES).

Blue Umbrella Labs, Hexo Helmets, NameCoach Inc., etc. — **San Francisco, CA**

Freelance Software Engineer — 8/16–8/17

- Projects ranged across the stack, ranging from ground-up prototypes to clean frontends. Clients included individuals, non-profits, and venture-funded Silicon Valley startups.

Skills, Languages and Other Interests

Foreign Languages: Near-native proficiency in Mandarin Chinese (written and spoken)
Other: Represented the United States in rowing. Current category 4 cyclist. Dual US/British citizen.