

# ADITYA KHANDELWAL

550 Lasuen Mall, Stanford, CA 94305 • (650) 334-9908 • [akhand@stanford.edu](mailto:akhand@stanford.edu)  
<https://linkedin.com/in/callmeaditya> • <https://github.com/akhand42>

I am a graduating senior at Stanford University seeking full-time software engineer and applied machine learning positions  
Rehiring since accepted software engineering offer at Schlumberger was rescinded (May 2020)

## EDUCATION

### STANFORD UNIVERSITY

Exp: June 2020

**Bachelor of Science, Computer Science** | Concentration in Artificial Intelligence  
**Prospective Master of Science, Computer Science** (admitted, Spring '20)

**Coursework:** CS Core (Algorithms, Programming Abstractions, System Design & Principles of Systems), Object Oriented Programming, Deep Learning, CNNs for Visual Recognition, Natural Language Processing, Natural Language Understanding, Artificial Intelligence, Modern Algorithmic Toolbox, Trust & Safety Engineering, Decision Making Under Uncertainty, Databases, Web Applications, Investment Portfolios, Lean Launchpad, *Section Leader: CS 106A, TA: ENGR 145: Entrepreneurship*

## WORK EXPERIENCE

### GOOGLE & BMW | Senior Project Machine Learning Engineer

*Mountain View, CA*  
Jan 2020 – Present

- Explored and prototyped a robust, production-ready, lightweight computer vision model for hand gesture classification
- Developed an end-to-end data collection pipeline, written in Python, to interact with Google's Radar Kit
- Built an Android application in Kotlin to emulate a Heads-Up Display mounted in a BMW vehicle
- Implemented an MQTT broker to perform actions on Android application using hand gestures received through Radar Kit
- Interfaced with engineers and product managers at Google & BMW regularly to guide development cycle and use cases

### STANFORD INTERNET OBSERVATORY | ML & Data Research Research Assistant, Advisor: Prof. Alex Stamos

*Stanford, CA*  
Oct 2019 – Present

- Utilized Apache Kafka Pub/Sub framework to ingest millions of Russian propaganda news websites to scrape. DevOps Tools used: Google Cloud Functions, Google Pub/Sub, Google BigQuery & Google Cloud Storage
- Parallelized the scraping mechanism using a ThreadPool and load-balancing on Google Cloud Virtual Machines; reduced runtimes by 500% from several days to a matter of hours
- Translated scraped documents, ran NLP techniques, like NER & Topic Modeling to present insights to social scientists
- Created a web-UI to expose these research tools and datasets generated for larger audiences outside the research lab

### ARCFORTY SEARCH FUND | Private Equity Sourcing Associate Intern

*San Francisco, CA*  
Jun 2019 – Oct 2019

- Built a general-purpose, computer-vision based batch PDF scraper to spreadsheets tool accelerate last-mile reach-out
- Provided insights on 700 potential American business and franchisee candidates that fit the search fund thesis
- Managed a collection of Upworkers to inexpensively procure data on potential candidate companies

### WANDERWELL | Hyperlocal Travel Recommendations Startup Product Manager

*Palo Alto, CA*  
Jan 2018 – Sep 2018

- Designed A/B tests for the initial iterations of the web & mobile products during the customer development phase
- Proposed the design & implementation of a React-based Progressive Web App (PWA) to reduce development times
- Increased Click-Through-Rates (CTC) on Facebook ads by 70% and Conversion Rates from DAUs to DPUs by 200%

### LINKEDIN | Professional Networking Enterprise Software Engineering Intern

*Mountain View, CA*  
Jun 2016 – Sep 2016

- Served as lead developer of a D3.js platform to visualize scrum code offenses, resulting in a 33% increased accountability
- Created a RESTful API to interact with this data and build more creative visualizations on top of it

## PROJECTS

### USING SIMPLE TRANSFORMERS FOR PHI DE-IDENTIFICATION (HuggingFace)

- Trained a transformer encoder-decoder model to perform Named Entity Recognition on i2b2 medical dataset
- Correctly identified 23 categories of Personal Health Indicators in EHRs with 99.01% accuracy on test set

### IDENTIFAI – LOCALITY SENSITIVE HASHING FOR PROVABLE OWNERSHIP (Flask)

- Created a pipeline to perform LSH on "similar" images to assign ownership tags as digital signatures
- Created a REST API to expose data endpoints and built web UI to utilize these endpoints

## SKILLS, CLUBS & HONORS

**Programming Languages:** Python, JavaScript, C++, C, SQL, HTML/CSS, R, Kotlin

**Frameworks & Technologies:** React, React Native, Flutter, Node.js, Flask, GCP, AWS, TensorFlow, PyTorch, D3.js, GraphQL

**Clubs & Activities:** BASES, Stanford ACM, The Blyth Fund, Nofilter Talks, TreeHacks, The Stanford Daily

**Awards:** TreeHacks 2020 Best FinTech Hack, LA Hacks 2016 Best Drone Hack, TOEFL Scholar, AP Scholar, NTSE Scholar