

# Andrew Clarke Acomb

acombandrew@gmail.com | (408) 828-5953

## Education

Northwestern University, Evanston IL

Sept. 2017 – June 2021

B.A. Computer Science, Minor: Data Science

Major GPA: 3.73/4.00

## Skills

Languages: Python, R, SQL (**Data**), Java, C++ (**Backend**), JavaScript, TypeScript (**Full Stack**)

Frameworks: PyTorch, NumPy, Pandas, SKLearn, Flask (**Python**), React, Node (**JavaScript**)

Tools: AWS & GCP - (serverless functions and containers, managed SQL & NoSQL, streaming, VPC, orchestration, instrumentation, logging, IAM, authentication, ML platforms, API Gateway), Cron, Docker, Kubernetes

## Experience

### **Ideaflow | Software Engineer**

Oct. 2023 – Current

- Launched on Product Hunt achieving #2 product of the day, and was featured in the weekly digest
- Added multiple machine learning enabled features, including OCR, audio transcription, named entity extraction, and semantic search
- Created analytics data pipeline using AWS Kinesis and Redshift to process over 100,000 events per day

### **Amazon | Software Development Engineer**

Aug. 2021 – Apr. 2023

- Worked on Hopper, a managed Shadow Testing service used to guarantee the reliability of Amazon.com's most critical services including ordering, shipping, and tax calculation
- Separated Hopper's cloud infrastructure by customer, allowing Hopper to support other internal customers besides the tax calculation service (which it was originally created for)
- Built functionality for Hopper to record and replay calls using Amazon's main RPC framework, allowing Hopper to generate test cases with 100% of customer services' traffic, from as low as 23%
- Integrated AWS Athena and AWS Glue to allow customers to run SQL queries on their Hopper test results

### **Belay (Village Global Accelerator F21) | Founding Software Engineer**

Apr. 2021 – Aug. 2021

- First software engineer at Belay, an early-stage venture-funded fintech startup
- Developed infrastructure to ingest and process semi-structured data at 100GB+ scale using Firestore, BigQuery, Cloud Run and Ray
- Optimized latency & data access for rideshare gig data, outperforming series B funded data providers

### **Amazon Web Services | Software Development Engineer Intern**

Jun. 2020 – Sep. 2020

- Migrated Network Access Control for the AWS VPC Console
- Improved performance to decrease load time by 22%
- Implemented new features including details section, rule sorting, and visualization of staged changes

### **First American Title | Machine Learning Research Intern**

Jun. 2019 – Sep. 2019

- Worked to automate the title research First American uses to price 500k+ title insurance policies annually
- Built LSTM models with PyTorch used to build chain of title from public records, achieving 95%+ accuracy
- Wrote ML pipeline ETL scripts using Pandas to automate data pre-processing and post-processing

## Awards & Accomplishments

**AGI House Generative AI Hackathon:** Winner of the Chat Interfaces category | 2024

**ACM International Collegiate Programming Competition:** Top 2 at Northwestern | 2019

**Google Tech Challenge:** Top 10 | 2019