

# Owen Gong

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## EXPERIENCE

### January

Software Engineer

New York, NY

October 2024 – Present

- Overhauled in-house cron scheduler for January's flagship business workflow execution engine (Automat) with Temporal-based solution, reducing P95 workflow kickoff latency from 3 minutes to 3 seconds ( $60\times$  faster)
- Led observability enrichment for Automat, enhancing monitoring across 500+ business and engineering workflows via enriched traces, custom emitted metrics, and Datadog dashboards for AWS SQS, EC2, Temporal, and Celery
- Implemented critical components for processing one-time and recurring user payments using durable execution patterns and webhook handling; shipped Google Pay via Checkout.com as one of two engineers
- Key contributor to January's AI usage initiative; regularly compiling best practices for LLM tool adoption

### Google

Software Engineer

Los Angeles, CA

August 2022 – March 2024

- Launched and maintained indexing infrastructure for YouTube Shorts hashtagged videos, integrating batch and streaming C++ pipelines to sort and surface content (example: [youtube.com/hashtag/owen/shorts](https://youtube.com/hashtag/owen/shorts))
- Developed internal tool in Typescript to display trending Shorts videos for human review from Google Sheets
- Refactored data modules, developed dashboard metrics, and performed data analysis for YouTube Hashtag insights

### Amazon

Software Development Engineer Intern (x2)

Seattle, WA

May 2020 – August 2021

- Built proof-of-concept feature for Prime Video that generated metadata suggestions like “Action movies with a dark mood directed by Christopher Nolan” by integrating Nielsen survey data with the catalog.
- Enriched Prime Video’s 7 million-title catalog with  $5\times$  more metadata by integrating IMDb bulk datasets.
- Used Spark and AWS services such as Elasticsearch, S3, DynamoDB, Lambda, Glue, CDK, and Step Functions

## EDUCATION

### University of California, Berkeley

Berkeley, CA

Bachelor of Arts in Computer Science, Applied Mathematics | GPA: 3.8/4.0

August 2018 – May 2022

- Held teaching assistant positions across several of the largest and most essential Computer Science courses on campus - Structure of Computer Programs, Data Structures, Algorithms, Computer Science Pedagogy (Head TA)
- 3x Recipient of Cal Alumni Association Leadership Award (awarded to 5% of 10,000+ applicants)
- Alum of Upsilon Pi Epsilon (UPE) CS Honors Society (invited to top 1/3 of UC Berkeley CS majors)
- Relevant Coursework:** Machine Learning, Artificial Intelligence, Algorithms, Databases, Data Structures, Computer Architecture, Computer Graphics, Discrete Math & Probability, Data Science (Intro and Intermediate), Linear Algebra (Intro and Advanced), Abstract Algebra, Numerical Analysis, Real Analysis, Complex Analysis

## SELECTED PROJECTS

### Where in the World | TypeScript, Next.js, PostgreSQL, Tailwind, Mapbox

- Full-stack application to track the home, visited locations of family and friends around the world locally on device
- Includes features to search by person, search by location on map, filter set of people by tags, star or unstar profiles, and Mapbox UI to display people who reside or have visited certain cities or countries ([Github Link](#))

### Voice-Activated Smart Mirror | JavaScript, Woodworking, Amazon Transcribe

- Constructed from scratch a Raspberry Pi-powered “mirror” and custom wooden frame with desktop monitor enclosed to display live modules updated throughout the day ([YouTube Link](#))
- Utilized open source modular magic mirror platform to connect to OpenWeatherMap, NYT, and NFL APIs

## SKILLS AND INTERESTS

**Languages:** Python (+ data libraries), C++; Familiar with: Java, Typescript, Go, SQL, Kotlin, Scala, JavaScript

**Tools & Frameworks:** Git, Docker, AWS, Temporal, Snowflake, Datadog, Flask, Cursor, Claude Code

**Interests & Hobbies:** {classical, electric} x {piano, violin}, [blogging](#), basketball, drone videography