

# OMAR ALHAIT

10108 Bret Avenue, Cupertino CA 95014  
mail@omar.fyi | 408-888-6246 | linkedin.com/in/oalhait

## Education

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- Carnegie Mellon University Pittsburgh, PA Spring 2019
  - Bachelor of Science in **Electrical & Computer Engineering** | Minor in **Machine Learning**

## Experience

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### *Founder, Zine - Your Digital Magazine*

June 2024 – Present

- Built Zine, a mobile/web application aimed at shifting the onus of fashion discovery back into the hands of Gen Z fashion consumers with a tinder-like discovery experience. Zine fosters a unique social shopping experience that listens to user input and recommends outfits and products based on a user and their networks' style profiles (**React Native, NextJS, Firebase, Posthog, OpenAI API**)
- Fine-tuned a proprietary fashion product identification model using fashion databases and a combination of computer vision technologies to accurately identify all fashion products visible in an outfit picture (**Google Colab, OpenAI API, Google Cloud Vision**)
- Leveraged community data to surface customer discovery data product, providing fashion brands valuable insight into consumer sentiments and habits (**NextJS, Firebase, OpenAI API**)
- Recruited/managed a team of 4 to scale product development and social media advertising presence after product release (**Github, Posthog**)

### *Senior Software Engineer, Atomic VC*

March 2023 – June 2024

- Served as lead engineer for Zena, a B2B Fintech solution for interior design firms. Architected v1 of the service, which offered interior designers a business card to buy contractual furniture without liability. Implemented an agent to enable conversational use of the product. Hired a team of 3 engineers and oversaw development before handing off to a new lead (**React, DynamoDB, Stripe, OpenAI API**)
- Built QAI, a QA-centric AI-powered tool that generated end-to-end Selenium tests for any web application given a user prompt. QAI also hosted a test bench in the cloud which integrated directly into users' CI workflows, running whenever new releases were slated for release. (**React, DynamoDB, OpenAI API**)
- Constructed/implemented an AI chatbot into Boompop, an event organization/promotion service. Bot could be used to create new events given details, add itinerary items, or set up integrations with services in the event's area (**React, OpenAI API, DynamoDB**)
- Served as lead engineer for Tabbed, an AI note taking service for recruiters. Recruiters simply invited Tabbed to their calls and would receive a personalized summary of the call they just had, allowing them to save 1+ hour a day spent taking meeting notes. Tabbed also records meeting transcripts and web-scraped candidate profiles to make meeting review quick and effective (**NextJS, DynamoDB, Amazon S3, OpenAI API**)

### *Software Engineer, Human Capital*

March 2022 – March 2023

- Deployed Kanban UI and state machine system into HC internal portal, capturing venture capital proceedings to leverage for data-driven decision making (**React, Redux, PostgreSQL, FastAPI, TypeScript, Docker**)
- Architected meeting feedback system to record data from external-facing HC meetings, offering UIs for web, Slack, and SMS input. Resurfaced relevant data to HC members with a 'meeting brief' email before a meeting occurs, informing them of any relevant HC engagements and external data for reference (**React, Zapier, FastAPI, Twilio, Slack, TypeScript, Docker, Celery**)
- Coordinated internal data into live-updating analytics system by pairing a custom-built PostgreSQL query system with Zoho Analytics, surfacing a birds-eye view into the firm's relationships with 70+ portfolio companies (**PostgreSQL, Zoho Analytics, React, Alembic, TypeScript, Docker**)
- Established interface system to promote inter-team ideation, maximizing engineering team's abilities to improve workflows across firm (**Slack, Zapier, FastAPI**)
- Implemented org-to-codename full-stack masking system to ensure Human Capital data privacy across internal portal (**React, FastAPI, TypeScript, Docker**)

## Experience (cont.)

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### *Full-Stack Software Engineer, **Prospect Medical Group***

August 2019 – March 2022

- Aggregated data from all Prospect transfer pipelines into Enterprise File Transfer web app, streamlining monitoring of all Prospect data flow from high-priority Covid-19 data to daily Extract, Transfer, Load jobs (**React, Redux, MySQL, Azure, Grafana**)
- Utilized Azure Data Factory to refactor an ETL pipeline system for data transfer amongst Prospect hospital network and related vendors. Revamped pipeline creation process by deploying a set of pipeline creation templates (**Azure Data Factory, MySQL, Windows, .NET**)
- Assembled and managed team of 3 direct reports to iterate pipeline development and maintenance after templating pipeline creation (**Jira, Confluence**)
- Overhauled Prospect's existing CRM solution by combining a web interface of Prospect's Five9 Call Center with a suite of custom build patient management tools in a web application for secretaries and managers to use daily (**Node.js/Express, TypeScript, Azure**)

### *Software Development Engineer (SDE) Intern, **Amazon Web Services***

May – Aug. 2018

- Developed and tested Pause/Resume API to prevent EC2 Server Migration Service (SMS) customers from losing data when replication jobs fail, reducing 20% of bandwidth necessary for SMS (**Java, AWS**)
- Constructed SMS dashboard to allow on-call engineers to diagnose client issues 70% faster (**HTML/CSS/JS**)
- Built scripts into dashboard to make adding newly developed metrics and regions effortless (**Python**)

### *Member of Technical Staff (MTS) Intern, **Nutanix***

May – Aug. 2017

- Implemented a tester-oriented version of Nutanix's V3 REST API for writing efficient tests (**Python 3**)
- Utilized V3 API to produce automated test suite and display run results on TVs in office (**Python, Django**)

## Projects

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### ***G-LOCK (C, Python, TensorFlow, React Native)***

- Implemented a fully autonomous, motion-triggered, facial recognition door lock system
- Fine-tuned 3-hidden-layer neural network to verify house inhabitant faces in real time

### ***PictoCal (Android/Java, TensorFlow, Google Cloud Vision API)***

- Paired Google Cloud Optical Character Recognition with a TensorFlow neural network to extrapolate relevant info from a flyer into a Google Calendar event in one click

### ***nftnews.fyi (Node/Express, chart.js, Firebase)***

- Cultivated news aggregator web application to stay informed on non-fungible token trends

## Skills

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**Languages:** JavaScript, TypeScript, Python, HTML/CSS, Pug, Java, C, Golang, Objective-C, SQL, Git

**Services:** React, NextJS, OpenAI API, Firebase, Node, Express, PostgreSQL, MySQL, NoSQL, Linux, Azure, AWS, GCP, TensorFlow, Jenkins, FastAPI, Zoho, Datadog, Zapier, Alembic, Docker, Twilio, SQLAlchemy, Pytest, Celery, Alembic, Posthog