

Markan Patel

cooltoast.github.io
github.com/cooltoast
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Summary

I build systems that organize and leverage data for solving real-world problems.

Education

Bachelor of Science, University of Michigan, Ann Arbor

Dec 2015

Computer Science & Biomedical Engineering

Technical Skills

Proficient with: Python, JavaScript, TypeScript, Docker, Terraform, Kubernetes, Node, React, SQL, MongoDB, AWS, GCP

Familiar with: Go, Java, Ruby, Django, Flask, Android, Arduino, MATLAB, Vimscrip, Lisp

Experience

Senior Software Engineer & Tech Lead, Memora Health

Oct 2023–Present

Building an NLP-enabled care delivery platform as Tech Lead of team responsible for scaling Memora's messaging platform. Architected and Led team in building a Message Orchestration system via single-channel SMS communication to bolster Memora's [dialog system](#) — thereby improving patients' conversational experiences and increasing treatment plan adherence. Implemented with Node/TypeScript services backed by MongoDB, and orchestrated with Kubernetes in GKE. [memorahealth.com](#)

Senior Software Engineer & Tech Lead, Benchling

May 2021–May 2023

Built data platforms and infrastructure to accelerate biotech research. Architected next-generation [Data Warehouses](#) to scale and sustainably serve Benchling's customer-favorite [Insights product](#). Designed and built internal Customer Data Platform to better inform company-wide Product, Sales and Marketing decisions. Implemented with ECS-deployed Python services, Snowflake, and AWS Aurora - provisioned via Terraform. [benchling.com](#)

CTO, Innovikas LLC

Sep 2018–Present

Managing technical agency focused on pre-seed to Series A startups.

Senior Software Engineer, Flatiron Health

Jul 2020–May 2021

Software Engineer, Flatiron Health

Jan 2019–Jul 2020

Built data platforms and infrastructure to accelerate oncology research and improve real-world outcomes for cancer patients. Designed and implemented [Terraform infrastructure workflows](#) to scale with Flatiron's business and technology growth. Developed highly available workflow management platform (with [Apache Airflow](#)) to orchestrate oncology data ETL pipelines. Implemented with containerized Python and Go services, and provisioned via Terraform and Ansible in AWS. [flatiron.com](#)

Software Engineer, PicnicHealth

Aug 2016–Sep 2018

Built Human-in-the-Loop Artificial Intelligence platform—which won [Google's Machine Learning Startup Competition](#)—to power PicnicHealth's complete medical record data pipeline for better patient experiences and real-world clinical study outcomes. Implemented with containerized Node.js/React web app and Python services, and orchestrated with Kubernetes in GKE. [picnic.ai](#)

Software Engineering Intern, Augmedix

May–Aug 2015

Designed and built end-to-end Mobile Device Management solution for [Augmedix's health record documentation service](#) that streams patient visits via Google Glass wearables to medical scribes.

Software Engineering Intern, Nephosity

May–Aug 2014

Developed WebGL [DICOM medical image viewer](#) and [RESTful API](#) with Python Tornado Web Server to manage medical images.

Software Developer Intern, Wireless Information Network Lab, Rutgers University

May–Aug 2013

Worked on a [wearable Android app](#) to [recognize faces](#) from a training set and display relevant data (name and age).

Projects

Open Source Contributions, Various

Dec 2017–Present

Contributed to [Apache Airflow](#) (Python), [HashiCorp's Terraform Enterprise Terraform Provider](#) (Go), and [ExcelJS](#) (JavaScript).