

CONTACT
INFORMATION

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PROFESSIONAL
EXPERIENCE

Subscribe with Google, San Francisco, CA Jan, 2020 – present

Tech Lead Manager (TLM) in the Subscribe with Google (SwG) engineering team. Our goal is to help publishers drive conversions and engage existing subscribers across Google and the web. My team is responsible for the backend storage, serving systems and logging/analytics systems that power SwG (<https://developers.google.com/news/subscribe>).

Hire by Google, San Francisco, CA Jul, 2018 – Dec, 2019

TLM for the Hire Backend Engineering team. Our mission is to develop user-centric, AI-based business applications. Our first application is Hire, a recruiting app to help companies hire faster. My team was responsible for the backend infrastructure, business logic and application systems that power the Hire app, and allow our users to streamline their hiring processes.

YouTube Application Infrastructure, San Bruno, CA May, 2015 – Jun, 2018

TLM for the YouTube video data application infrastructure and YouTube Music data teams. I designed and built the system that stored and served all music data in the YouTube and YouTube Music apps - artists, albums, songs, genres, etc. This is a challenging problem due to the absence of any canonical music schema, and data has to be reconciled from different sources (freebase, AMG, DDEX). In addition to various YouTube apps, the system also powers music knowledge panels (KPs) in Google search and catalogs in Google Play Music (GPM).

YouTube Music, San Bruno, CA Sep, 2008 – Apr, 2015

Engineer on the YouTube Music team. I designed and shipped the frontend and backend systems for YouTube Music Discovery engine (Disco) (<https://techcrunch.com/2010/01/20/youtube-disco-music-discovery-project/>), and the publishing and syndication system for YouTube music charts on Billboard (<https://www.billboard.com/articles/business/1549766/billboard-charts-add-youtube-views>). My noogler project was adding support for depth-tagging videos in YouTube (<http://youtube-global.blogspot.com/2009/02/underwater-geo-tag-for-your-videos.html>).

EDUCATION

Purdue University, West Lafayette Aug, 2006 – May, 2008
MS in Computer Science.

Thesis: *A Framework for exploiting Temporal Variations in Relational Domains*.

Indian Institute of Technology (IIT), Delhi Jul, 2002 – May, 2006

Bachelors of Technology (B.Tech.) in Computer Science and Engineering.

Thesis: *Parallel Algorithms for the Positive Linear Programming Problem*.

PUBLICATIONS
PATENTS

(Defensive Publication) **Umang Sharan** and Raunaq Shah. Creator tool for structuring episodic content using linked playlists. YouTube/Google Inc., November 2015.

Umang Sharan and Jennifer Neville. Temporal Relational Classifiers for Prediction in Evolving Domains. In *Proceedings of the 8th IEEE Conference on Data Mining (ICDM'08)*, Pisa, Italy, December 2008.

Mohit Saxena, **Umang Sharan** and Sonia Fahmy. Analyzing Video Services in Web 2.0: A Global Perspective. In *Proceedings of the 18th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV'08)*, Braunschweig, Germany, May 2008.

Full list: <https://www.umangsh.com/publications>

Citations: <https://scholar.google.com/citations?user=NT2rrj4AAAAJ>