Dev Sanghvi

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EDUCATION

- **Cornell University** — Ithaca, NY
  Master of Engineering in Electrical and Computer Engineering. — *Aug 2017 - May 2019*

SKILLS

- **Technical Skillset**: Python, Java, Scala, Spark, Javascript, SQL, NoSQL, REST, Amazon Web Services.
- **Softwares/Tools**: Node.js, React, Docker, Bash, Backstage, JIRA, Jenkins, Git, Arduino.

INDUSTRY EXPERIENCE

- **Spotify, Inc** — San Francisco, CA
  Data Engineer - Native Ads Team (Scala + Scio + Java + Python + Backstage + SQL + GCP) — *Jun 2023 - Dec 2023*
  - **Audience Delivery Optimization**: There is no potential for audience growth by only targeting the "Core" audience of an artist. Built Data Pipelines to introduce the functionality of new segments to target the potential audience leading to 1.6x audience growth.
  - **Marquee Opt-outs**: Reduced the storage and compute cost of Opt-outs data by more than 99% by eliminating the need to store opt-out Ids associated with campaign data by leveraging the concept of "Anti-Targeting" saving Spotify $42,000 per year.

- **Teladoc Health, Inc** — Mountain View, CA
  Software Engineer II - Enterprise Core Team (Scala + Spark + Java + Python + SQL + AWS) — *Mar 2021 - Jan 2023*
  - **NextGen**: Developed a claims management tool for the Billing processes which was initially being outsourced to a third party entity. The nextGen tool provides customized features for clients, submission of claims on member level, reduction of claim errors by 95%, reduced costs by $250,000 per year, logging, and dashboards for monitoring.
  - **Project Fusion**: Successfully implemented oneApp integration of Teladoc's primary 360 and chronic care division's data pipelines by consuming fusion API, transforming and improving the quality of the data, and making it data agnostic across different platforms.

- **Google, Inc via Modis** — Mountain View, CA
  Software Engineer - L10N Pipeline and Infrastructure Team (Java + Python + GCP) — *Jun 2020 - Mar 2021*
  - **Localization Partner API**: Built RPC and RESTful services for partner-only One Platform API which is used by vendors to interact with internal Google systems to provide localization services for Google. Using Apps Framework (Java) to write modern Java Servers with Guice, and a "NewSQL" database (Spanner); using Protocol Buffers.
  - **Bugs and Escalations**: I was part of the Tier III Team that looked into escalated bugs and configuration issues related to Localization tools.

  Technical Solutions Specialist - Data Platforms and Intelligence Team (Java + JavaScript + SQL) — *Oct 2019 - Jun 2020*
  - **Search Ads 360**: Successfully transitioned Data Pipelines worth $240 million in advertisement revenue to its new owner. Managed a team of 20 Vendors and serviced needs of Stakeholders and 350 Clients.
  - **Localize**: Localization team make content translation of Google products up to 107 languages. I led the effort to build features that streamlined the application to better serve the testing group processes. My responsibilities included designing the features, testing them, revamping the frontend and writing out the specifications.

- **Technical Consulting & Research, Inc** — Weston, CT
  Web Application Intern (Python + React + Docker + AWS + Git + JIRA) — *Dec 2018 - Apr 2019*
  - **Web Services**: Built a Flask-RESTful web service utilizing Twilio's REST API that breaks PayPal's system and gets the password pin of the user account.

- **Iterate Labs** — Boston, MA
  Embedded Software Engineering Co-op (Node.js + C + React + AWS + PostgreSQL + Redis) — *Jun 2018 - Nov 2018*
  - **Processing Enhancement**: Improved motion capture capabilities for wearable technology and reduced the error rate from 11% to under 1.4% by implementing Sensor Fusion Algorithm.

PROJECTS

- **Grocery Guard**: A device to track the availability and expiry dates of food items in a refrigerator, and to suggest recipes based on available items (Python, PostgreSQL, HTML, CSS, JavaScript).
- **Video Compression w/ CUDA**: Designed a framework that runs on Tesla K40C GPU and parallelizes video compression. Achieved a total execution time speed-up of 41000 times to that of sequential implementation (CUDA).