Archit Mehta

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EDUCATION

- **Cornell Univerity**   Ithaca, NY
  B.S. - Computer Science; GPA: 4.13/4.0   *2024 (Expected Graduation)*
  Courses: *Honors Object Oriented Data Structures, Functional Data Structures & Programming, Discrete Structures, Linear Algebra*
  Activities: *Cornell AppDev (Tech Lead & PM), Cornell Hack4Impact (Tech Lead), Association of CS Undergrads (Corporate Officer)*

SKILLS

- Languages   Java, Python, JavaScript, OCaml, PHP, HTML, CSS, C
- Frameworks   Express + Node, Django, Flask, React, React Native, NLTK, TensorFlow
- Tools   Azure, AWS, GCP, Kubernetes, Docker, GraphQL, MongoDB, PostGreSQL, MySQL, Git

EXPERIENCE

- **Software Development & Cloud Engineering Intern**
  Johnson & Johnson Robotics   *May 2022 - Aug 2022*
  - Worked on robotic surgery cloud platform to enable real-time data analytics and communication between IoT robot devices
  - Enabled provisioning of **5,000+ cloud resources** by creating Terraform modules to **automate deployment** of Azure IoT Hub, API Management, and Blob Storage.
  - Conceived & implemented **Azure IoT Edge** authentication module used across **8 device teams** to interface with Robotic Surgery Cloud platform.
  - Utilized the **Natural Languate Toolkit** (NLTK) to parse and extract information from **50** real-world contracts stored in the cloud.

- **Tech Lead & Product Manager**
  Cornell AppDev   *Feb 2022 - Present*
  - Led **all Software Development (iOS, Android, Backend)**, Feature Planning, Marketing, and Design for Volume, an app that centralizes articles from Cornell Publications.
  - Conceived, implemented, and market-tested article summarization, sharing, and analytics features, **effectively doubling** Volume's monthly active user base.
  - Implemented **RSS feed polling** via the **microservice design pattern** to decrease article ingestion overhead.

- **Tech Lead**
  Cornell Hack4Impact   *Oct 2021 - Present*
  - Partnered with Cornell Xenophobia Meter Project to build an **extensible unsupervised learning model** capable of identifying Xenophobia in tweets of any language.
  - Designed model structure, combining Word2Vec embeddings with **K-means clustering** to generate classifications.
  - Oversaw all development efforts, created pipelines for pre and post processing, and implemented continuous deployment via GitHub Actions.

- **Full-Stack Developer**
  Cornell Design & Tech Initiative   *Oct 2021 - Feb 2022*
  - Worked on QueueMeIn, a virtual office hours platform used by over **6,000** students and **30** courses.
  - Implemented **text message alerts** for students and Teaching Assistants via **Firebase Cloud Functions** & Twilio.
  - Modified Firebase DB Schema and built modals, popups, and alerts to support phone number acquisition & storage flows.

- **Software Development Intern**
  Atyeti, Inc.   *Jul 2020 - Oct 2020*
  - Built HR platform (**React, Node, GraphQL**) to centralize automate **10** unique HR onboarding processes
  - Utilized the **Microservice design pattern**, creating a microservice for each HR process and using a central EventBus.
  - Deployed platform using **Kubernetes and Docker** onto Azure Cloud VM.

VENTURES & PERSONAL PROJECTS

- **Yolo: Social Events (Launching Fall 2022),** Single-handedly conceived & wrote a social media app designed to help college students discover events on campus, invite friends to go with them, and find new friends based on common event interests. *Tech: React Native, MongoDB, Express & NodeJS, Socket.io, AWS EC2 & S3 & CloudFront, Docker*

- **NewsFlash: Unbiased News (1,500+ users),** Single-handedly conceived & wrote a mobile app that uses **deep learning neural networks** to automatically analyze news article sentiment and bias for both trending articles in the USA as well as user-submitted article URLs *Tech: TensorFlow, NLTK, React Native, Flask, MySQL, Docker*

- **Eatery: Cornell Dining (8,000+ users),** Worked on a team of 5 to add new features and maintain Eatery, used by over half of Cornell's undergraduate population get information on local restaurant & dining hall menus and schedules. *Tech: Django, PostGreSQL & SQLAlchemy, Docker*