

# Archit Mehta

Portfolio: [architmehta.me](http://architmehta.me)

Github: [github.com/Archit404Error](https://github.com/Archit404Error)

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## EDUCATION

### Cornell University

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, TypeScript, JavaScript, OCaml, PHP, HTML & CSS, C#, C
- Frameworks    Express & Node.js, Django, Flask, React, React Native, Angular, Spring
- DevOps & DB    MongoDB, GraphQL, MySQL, Azure, AWS, Google Cloud, Kubernetes, Docker, Jenkins, Terraform, Git
- Machine Learning   TensorFlow, SciKit-Learn, NLTK, PyNEAT, Pandas, Numpy, Jupyter

## EXPERIENCE

### Software Development & Cloud Engineering Intern

- Johnson & Johnson Robotics May 2022 - Aug 2022
  - Worked on robotic surgery cloud platform enabling real-time data analytics & 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 Language 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 Cornell student articles.
  - Conceived, implemented, and market-tested article summarization, sharing, and analytics features, **effectively doubling** 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 **over 100** unique languages (English, Spanish, etc).
  - Architected model structure, combining Word2Vec embeddings with **K-means clustering** to generate classifications.
  - Oversaw all development, created data processing pipelines, & 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 **Firestore Cloud Functions** & Twilio.
  - Modified Firestore DB Schema and built modals and alerts to support phone number acquisition and 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)**, Conceived & led development on 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)**, 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*