

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, 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

- Leading **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

- Partnering with Cornell Xenophobia Meter Project to develop 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 frontend (React & MaterialUI) and backend (Firebase) of QueueMeIn, a virtual office hours platform used by over **6,000** Cornell 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 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 and find new friends based on common event interests. Implemented event & friend recommendation algorithms, a content delivery network (CDN), client-server sockets, etc.
Tech: React Native, MongoDB, Express & NodeJS, Socket.io, AWS EC2, AWS S3, AWS CloudFront, Docker
- **NewsFlash: Unbiased News (1,500+ users)**, Designed & developed a mobile app that uses **deep learning neural networks** to automatically analyze news article sentiment and bias for both trending news articles in the USA
Tech: TensorFlow, NLTK, React Native, Flask, MySQL, Docker
- **Eatery: Cornell Dining (8,000+ users)**, Worked as a backend developer 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*