Archit Mehta

Portfolio: architmehta.me
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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 build an **extensible unsupervised learning model** capable of identifying Xenophobia in tweets of **over 100** unique languages (English, Spanish, etc).
- Architectured 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 **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, 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*