

# Archit Mehta

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR · CORNELL UNIVERSITY

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## Education

### Cornell University

Ithaca, NY

B.S. IN COMPUTER SCIENCE, COLLEGE OF ENGINEERING

Aug 2021 - May 2025(Expected)

- Relevant Courses: Data Structures Honors, Intro to Computer Science, Intro to Entrepreneurship for Engineers, Linear Algebra, Multivariable Calculus, Physics II, Physics I

### West Windsor-Plainsboro Highschool North

West Windsor, NJ

HIGH SCHOOL DIPLOMA

Aug 2017 - Jun 2021

- GPA: 4.0/4.0
- Top 1% of class
- National Honors Society
- National Merit Scholar Finalist

## Skills

**DevOps** AWS, Azure, Google Cloud, Docker, Kubernetes, Gradle, Git

**Back-end** GraphQL, Node.js, Flask, Axios, Express, Django, REST API

**Front-end** Bootstrap, Jekyll, React.js, HTML5, CSS, Wordpress

**Programming** Python, Java, PHP, Javascript, OCaml, LaTeX

**Machine Learning** TensorFlow, PyNEAT, SkLearn, Pandas

**Languages** English, Hindi(Fluent), French(Proficient)

## Experience

### Junior State of America Foundation

New Jersey, USA

SOFTWARE DEVELOPER AND ELECTED OFFICIAL

Jul. 2020 - Oct. 2020

- Elected by over 1500+ students to the position of Speaker of the State Assembly, responsible for using technology and legislation to improve the Junior State of America foundation.
- Eliminated inefficiencies by creating "The State Assembly Online" platform, which enabled students to automatically generate bills, partner with other students, and submit areas of improvement digitally.
- Configured and administrated an online voting platform used by 1000+ students to cast their ballots for the next generation of student leaders.
- Collaborated directly with JSA corporate management in order to deploy solutions and software necessary to reform the organization's issues.
- Brought both State Assembly Attendance and bill submissions to the highest point in the 30 year history of JSA.

### Atyeti, Inc.

New Jersey, USA

SOFTWARE DEVELOPMENT INTERN

Jul. 2020 - Oct. 2020

- Built a platform for Atyeti HR that centralized all candidate data and candidate tracking in one location, moving them away from using spreadsheets as a form of candidate tracking. Created the application using GraphQL along-side React.js, Node.js, and Apollo.
- Learned the fundamentals of modern GraphQL API development, using Docker Containers, Kubernetes, the concept of Micro-services, and Azure Cloud to test and deploy the application in real-time.
- Worked closely with the company's Cloud Solutions Architect and CTO in order to incorporate all of Atyeti's needs into the platform, and to deploy the platform on Azure Cloud.

### Plainsboro Public Library Foundation

New Jersey, USA

WEB DEVELOPMENT INTERN

Jul. 2019 - Sep. 2019

- Oversaw the creation of a web platform that the foundation could use in order to create and host all future fundraising events. The platform simplified the presentation of information, fundraising, and registration for the event.
- Built the website and web app single-handedly, utilizing HTML5, CSS, JS, and PHP(full stack development). Served as site administrator and troubleshooted issues with cloud deployment, data collection, etc.
- Platform served over 23,000 township residents during the duration of my internship alone, and the source code was acquired by the foundation to re-use for future events.

## Projects

## NewsFlash: Unbiased News

USA

HTTP://NEWS-FLASH-PROJ.HEROKUAPP.COM

Aug. 2021 - PRESENT

- Designed mobile and web app with the intention of creating a tool to help identify and combat news bias.
- Utilized Flask and Heroku to create and host central API queries by both mobile and web clients.
- Trained and implemented several machine learning models in TensorFlow and NLTK in backend API to analyze sentiment, generate news summaries, identify political bias, etc.
- Used React Native to create front-end for both iOS and Android clients, and later deployed app on iOS and Google Play Stores.

## PriceMerge

USA

HTTP://PRICEMERGE.COM

Aug. 2020 - PRESENT

- Designed webapp focused around combating price gouging by enabling users to compare product prices across thousands of retailers, track product prices, and receive notifications when product prices drop.
- Utilized HTML, CSS, JavaScript, and Bootstrap to create the front-end, and PHP along-side MySQL on the backend.
- Garnered over 25,000 users, gained local and national media attention(ABC news, NJ News Network, etc.)

## State Assembly Site

USA

CREATOR & ADMINISTRATOR

Apr. 2020 - Apr. 2021

- Created site while serving as JSA Elected Official, designed to help students meet others online and prepare better for the competitions.
- Had several tools to enable more efficient preparation, such as automatic bill creation tool(created using the PHPRTfLite Library), partner finding tool, guides, etc.
- Singlehandedly built the entire site using HTML, CSS, JS, and Bootstrap for the front-end, and PHP alongside MySQL for the backend.
- Learned how to deal with user authentication, how to create secure sessions, how to manage and store user data, etc.
- Garnered 1500+ users

## Artificial Intelligence Simulations

USA

PROGRAMMER

Jan 2021-PRESENT

- Implemented several different machine learning modules(SKLearn, PyNEAT, etc.) to create Artificial Intelligence simulations with autonomous players learnig to play a given game(Flappy Bird, Pong, etc.)
- Learned how to handle large amounts of data, deal with several neural networks at once, configure neural network output, etc.
- Understood the underlying mathematics and concepts behind several different machine learning models.

## PrivChat: Private Chatting

USA

CREATOR

Jun. 2017 - Jul. 2017

- Utilized Java to create a complete desktop chatting application(Front-end and back-end) designed to be disposable and secure.
- Implemented and learned how to use Java Swing, Sockets & Threads(to create the server), I/O Streams, several data structures, etc.

# Honors & Awards

## PROGRAMMING

2020	<b>USA Computing Olympiad Gold Divisionist</b> , Selected as 1 out of only 600 highschoolers nationwide as a gold divisionist based upon my algorithmic programming abilities	USA
2020	<b>2nd Best Overall Hack</b> , GeomHacks Hackathon	USA
2019	<b>Best Overall Hack</b> , March of Dimes #STEMTogether Hackathon	USA
2021	<b>Mentorship Recipient</b> , Yale CBIT Hackathon	USA
2019	<b>5th place overall team</b> , PeaCTF cybersecurity competition	USA
2021	<b>8th place highschool team</b> , AngstromCTF Cybersecurity Competition	USA

## OTHER

2020	<b>2nd place &amp; International Qualifier</b> , National Community Problem Solving Competition	NJ
2021	<b>National Merit Finalist</b> , National Merit Scholarship Foundation	USA
2020	<b>National AP Scholar</b> , Collegeboard	USA
2019	<b>1st place</b> , Hindi-USA National Jeopardy Competition	USA
2021	<b>Silver Medalist</b> , Le Grand Concours National French Competition	USA