

# Pranav Mittal

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## EDUCATION

**M.S Computer Science (Arizona State University)**

**Expected May 2025**

**B.S Computer Science**

**May 2024**

**Minor: Business**

**Arizona State University**

**GPA: 3.96/4.0**

**Honors:** Summa Cum Laude, Dean's List: Fall 2020 – Spring 2024

## TECHNICAL SKILLS

Programming Languages: Java | Python | C++ | JavaScript | React | HTML5 | MySQL | JavaFx | Junit | SwiftUI | Rest API

Tools: MacOS | Selenium | VS Code | XCode | Machine Learning | Jupyter | Github | Unity | Atlassian JIRA | Vercel | Google Colab

Libraries: TensorFlow | NumPy | Pandas | Matplotlib | PyTorch | Seaborn | OpenCV | scikit-learn | Keras

## PROFESSIONAL EXPERIENCES

**Software Test Engineer Intern**

**June 2024 - Present**

Spark Cloud Studio

**Remote**

- Developed and executed comprehensive test cases for website and app using JIRA, identifying and resolving bugs to ensure high-quality releases.
- Contributed to frontend development using Svelte and JavaScript, and supported backend functionalities with Vercel and JavaScript, enhancing overall user experience.
- Collaborated with cross-functional teams to streamline project workflows, communicate progress, and implement best practices in software testing and development.

**Software Developer Intern**

**June 2023 - August 2023**

Hexagon AB

**India**

- Implemented a new feature to the Apollo software to display names of files searched by co-ordinates or string.
- Developed new GUI to navigate missile path around globe and demonstrated it to Indian Defense System.
- Collaborated in a team of 4 to create a new GUI in Python Luciad Lightspeed Software and did Full Stack Development.

**Software Engineering Intern**

**May 2021 - November 2021**

Insigma Technologies Inc

**Remote**

- Built a face mask detection model deploying TensorFlow & Pandas would detect if a person is wearing mask.
- Served in sample security cameras during time period of COVID-19 at various locations.
- Formulated with over 2000 sample images with three different types of masks for training and testing purposes.

## RELEVANT PROJECTS

**Sign Language Detection System for Mute/Deaf People**

**February 2024 - April 2024**

- Recognized for outstanding design with 98% accuracy; developed heuristic model capable of registering hand gesture.
- Deployed computer modeling and image processing algorithms, building neural network with 90% accuracy.
- Demonstrated strong technical proficiency in leveraging new technologies, including OpenCV and machine learning, to create a user-friendly platform bridges communication gaps for mute people.

**Directional Stock Price Prediction using Tweets and News**

**January 2024 – April 2024**

- Engineered a predictive analytics web tool leveraging NLP and machine learning techniques, including BERT, LSTM, and XGBoost, achieving 78% predictive accuracy.
- Employed HTML and CSS to architect a user-centric interface facilitating dynamic retrieval and analysis of open-source news for Fortune 500 stock price predictions, customizable over user-defined intervals.

**Meal Selection App**

**August 2020 - November 2020**

- Developed a Meal Recipe App using JavaScript, React-Native, and Expo where a person can select any meal of choice and get the ingredients and method to make that recipe.
- Prepared gourmet meals for buffet and facilitated improvement of nutrition measure by 25%.
- Generated recipe to a specific kind of dish selected by user and can be star marked as favorite by user.

## OTHER EXPERIENCES

**Technical Assistant**

**January 2022 - Present**

Dreamscape Immersive, UTO, Arizona State University

- Guide biology students demonstrate treatment of cancer causing cells using Augmented and Virtual Reality shows.
- Solve troubleshooting and technical problems with VR and tracking devices.
- Hosted multiple AR and VR demonstration to showcase capabilities of new technologies to investors.

**Undergraduate Teaching Assistant**

**January 2023 - May 2023**

Arizona State University

- Instructed Principles of Programming (CSE 110) course's lab and helped 120+ students implementing java language.

## LEADERSHIP EXPERIENCE

**Co-Technical Director, Sun Devil Data Science, ASU**

**June 2021 - August 2022**