

# Preet Shah

Master of Science in Software Engineering, ASU

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## EDUCATION

### MS in Software Engineering

Arizona State University, Tempe, AZ

Aug 2022-May 2024

Relevant Coursework: Foundations of Software Engineering, Software Design, Adv. Data Structures

### B. Tech in Computer Science

Indus University, Ahmedabad

CGPA – 8.4/10

Aug 2018-May 2022

Relevant Coursework: Cloud Computing, Object Oriented Programming, Data Visualization, Machine Learning

## TECHNICAL SKILLS

**Programming Languages:** C, C++, C#, Python, JavaScript, R, TypeScript    **Operating Systems:** Windows, Linux, Unix

**Web Technologies:** HTML, CSS, NodeJS, ASP.NET, WPF, SOAP

**Database and Client/Server Technologies:** MySQL, MongoDB, Apache Spark, AWS

**Software:** RStudio, Anaconda, Tableau, Microsoft Visual, Jira, SPSS, Excel, PowerBI

## PROFESSIONAL EXPERIENCE

### Junior Software Developer, Intech Creative Services

Dec 2021 – Apr 2022

-A consultation company with about 500 employees

#### Auto Stowing in Container Ships

- Research current auto stowing problems in container ships to implement Go-To-Sea strategies through AI/ML. Improving user experience to plan out containers considering stack weight, minimizing yard shifting and yard load balancing while increasing operations by 60%
- Develop training algorithm based on Deep learning methods for slot planning problems. Generated an approach based on Reinforcement learning and Genetic algorithm, coupled with rule-based search algorithm.
- Analyzed 236 test instances, the algorithm was able to produce optimal solutions for 222 instances and 13 near-optimal solutions with an average deviation of 7.2%, with one instance producing infeasible solution.

### Project Intern, IIT-Delhi

Jun 2021 – Jul 2021

-A globally acclaimed research university in Delhi

#### Admin Dashboard

- Developed responsive and dynamic admin dashboard for the automation lab using ReactJS and Redux.
- Created real-time functionalities such as Orders, Revenue, Monthly earning graph and Current activity of machines. Added Light/Dark mode with multiple color and contrast options.
- Connected the dashboard with database to get real-time updates using Firebase and SQL database

### UI/UX Intern, Dreamworld Solutions

Dec 2020 – Feb 2021

-A consultation company with about 50 employees

#### Movie Recommendation Website

- Developed a hybrid approach by combining content based filtering and collaborative filtering using support vector machine as a classifier and genetic algorithm to create a Movie recommendation system.

### Junior Python Developer, Infolabz

Jun 2020 – Jul 2020

- A consulting company with about 50 employees

#### A/B testing using R

## ACADEMIC PROJECT

### Unquote – Android Trivia App

Nov 2021- Dec 2021

- Primary motive of this project was to create an android trivia application using Android studio.
- In Unquote, players must correct Internet misinformation, the kind that comes in the form of picture quotes. The game presents fake quotes to the user and tasks them with identifying the true author of each quote.
- Designed a wireframe and implemented using Android Studio.
- Developed using Java programming language.

### Inspirational Homepage

Mar 2021-Apr 2021

- Developed an Inspirational Homepage that interacts with different APIs to display current weather, a background image, and an inspirational quote. It also provides users with a space to write down their goals for the day. A 'confetti' appears upon goal completions.
- Implemented OpenWeather API to fetch current weather data, Quotes API to fetch daily inspirational quote and Unsplash API to fetch inspirational images.
- Technologies used: React, Redux State Management, Material UI components, Git & GitHub version control and Deployed with Netlify.

## PUBLICATIONS

- [Skin Disease Detection](#), Published in IJIRMF Volume – 7, Issue – 5, May - 2021
- [Credit Card Fraud Detection using Machine Learning Techniques](#), Published in IJIRMF Volume – 7, Issue – 9, September - 2021