

# Ayan Patel

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## Education

**University of Southern California, Los Angeles, CA**

**Jan 2022–Dec 2023**

*Master of Science, Computer Science*

*GPA 3.50/4.0*

**Courses:** Analysis of Algorithms, Database Systems, Web Technologies, Natural Language Processing, Information Retrieval

**Gujarat Technological University, India**

**Aug 2015–May 2019**

*Bachelor of Engineering, Computer Engineering*

*GPA 9.19/10.0*

**Courses:** Data Structures and Algorithms, Operating Systems, Artificial Intelligence, Networks, Object Oriented Programming

## Technical Skills

**Languages:** Python, Java, C++, HTML, CSS, JavaScript, TypeScript, SQL

**Databases:** MySQL, Oracle Database, PostgreSQL, MongoDB

**Libraries and Frameworks:** Angular, Angular Material UI, Bootstrap, Flask, RxJS, Axios, NumPy, Express.js, React, Pandas, NetworkX, Sklearn, NLTK, Matplotlib, PyTorch, BeautifulSoup

**Tools and Technologies:** Node.js, Google Cloud Platform (GCP), REST APIs, AJAX, GIT, JIRA, Docker, Kubernetes, PostMan, NPM, AWS, Visual Studio Code, Android, Eclipse, Windows, Linux, Android Studio, Jupyter Notebook

**Methodologies:** Agile

## Work Experience

**Project Engineer, Wipro Limited, India**

**Jul 2019–Nov 2021**

- Developed single page application for budget estimate/expenditure of Gujarat state and for payroll of 185K+ Gujarat state govt. employees using Angular 10, Angular material UI, Typescript, HTML5, CSS3, Bootstrap 4 along with API integration.
- Involved in complete Software Development Life Cycle including Requirement Analysis, Design, Implementation, and Testing, maintained effective working relationships with team members and business analysts and followed AGILE methodology.
- Worked in both prototyping and development phase for UI designing and API integration respectively.
- Collaborated with business analysts to develop software solution of the business problem/requirement.
- Worked on manipulation of Observable/Promise data received from REST API calls.
- Built various abstract interfaces and classes to construct business logic.
- Solved build time errors, performed build deployment and code refactoring for older designs.

## Projects

**Business Finder Reservation System** | *Express.js, Angular, GCP, Javascript, Typescript, Axios, Node.js, JSON, Angular Material*

- Designed and built a web application using Angular and Express.js to fetch businesses and it's details using YELP API based on parameters involving keyword, category (e.g. Hotel, Medical, Food.), etc., and deployed the application on GCP
- Created REST APIs using Express.js to serve client request by responding with details of businesses fetched through YELP API.
- Added functionality to let clients make reservation for a business based on time, email, etc., using Web Storage API.

**Social Network (Instagram) Graph Link Prediction** | *Python, Pandas, Networkx, Sklearn, NumPy*

- Predicted missing links/edges in graph based social network to recommend a user to other user.
- Aligned the problem to a supervised learning problem based on graph based features like Page Rank, Adamic/Adar Index, etc., on 1.83M user's data and used F1-score and binary confusion metric as performance metric.

**Business Reservation Android App** | *Java, Android, JSON, Volley, Picasso, Axios, Javascript, Node.js, Express.js, GCP*

- Developed an Android app using Android Studio allowing the client to dynamically search and reserve from 1M available businesses fetched by REST APIs built on Express.js back-end and deployed on GCP. Back-end gets businesses and it's details using YELP API.
- Designed several activities, fragments and recycler views to implement features such as swipe-to-delete, tab group, dynamic lists, etc.
- Implemented SharedPreferences as a local storage for storing the scheduled reservation details of a user based on time, email, etc.

**Video Rental Inventory System** | *Java, Oracle Database 11G, Eclipse*

- Created a Java application, for video rental store, capable to manage video inventory as well as maintain customer profile in RDBMS schema.
- Executed CRUD operations such as add/remove customer profile, sell/rent video, accept rating from customer etc.

## Leadership & Involvement

- Led a team of 8 coordinators for Computer Engineering Students Association in organizing and initiating Coding fest events for university students and it resulted in improvement of leadership and communication skills.

## Honors & Awards

- Received Academic Excellence Award (cert. by NASSCOM) for being top ranked student in Computer Engineering stream in the university from Shri Dewang Mehta I.T foundation for academic year 2017-18.
- Awarded Certificate of Academic Excellence 2016-17 for achieving second rank in Computer Engineering department.

## Additional Information

- U.S Permanent Resident (Green Card holder - No visa sponsorship required)