Ayan Patel

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Education

University of Southern California, Los Angeles, CA **Jan 2022 – Dec 2023**
Master of Science in Computer Science *GPA 3.50/4.0*
Courses: Analysis of Algorithms, Database Systems, Web Technologies, Advanced Mobile Devices and Game Consoles

Gujarat Technological University, India **Aug 2015 – May 2019**
Bachelor of Engineering in Computer Engineering *GPA 9.19/10.0*
Courses: Data Structures, Algorithm Design and Analysis, Operating Systems, Artificial Intelligence, Networking, OOP Principles

Technical Skills

Languages:	Python, Java, C++, HTML, CSS, JavaScript, TypeScript, SQL
Databases:	MySQL, Oracle Database 12C, PostgreSQL, MongoDB
Libraries and Frameworks:	Angular, Angular Material UI, Bootstrap, Flask, RxJS, Axios, NumPy, Express.js, React, Pandas, NetworkX, Sklearn, NLTK, Matplotlib
Tools and Technologies:	Node.js, Google Cloud Platform (GCP), REST APIs, AJAX, GIT, JIRA, GitHub, Swagger UI, PostMan, NPM, AWS, Visual Studio Code, Android, Eclipse, Windows, Linux, Android Studio
Methodologies:	Agile

Work Experience

Project Engineer, Wipro Ltd., 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.
- Designed various abstract interfaces and classes to construct business logic.
- Solved build time errors, performed build deployment and code refactoring for older designs.

Projects

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.
- Used F1-score and binary confusion metric as performance metric.

Stack Overflow Question Tag Prediction | *Python, Pandas, Sklearn, NumPy, NLTK*

- Predicted relevant tags for question based on its title and description, which are helpful in getting answers from respective technology experts.
- Mapped the problem as multilabel classification problem and used Logistic Regression to predict tags for each question.
- Accomplished Feature engineering and did data preprocessing by performing stemming, removing stop words, etc.

Quora Question Pairs | *Python, Pandas, Sklearn, NumPy, NLTK*

- Developed a model to classify whether question pairs are duplicates of each other or not and achieved LogLoss 0.35 on test data.
- Utilized key performance Indicator as LogLoss and secondary mertic as Binary Confusion metric
- Carried out data preprocessing and featurization task.

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

- Developed a Java application, for video rental store, capable to manage video inventory as well maintain customer profile in RDBMS schema.
- Executed CRUD operations such as add/remove customer profile, sell/rent video, receive 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 that greatly improved my 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 second rank in Computer Engineering department of our college

Additional Information

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