

Pranav Jogesh Bindra

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EDUCATION

Arizona State University, Tempe, Arizona, USA
Master of Science in Computer Engineering
GPA : 3.81/4.0

May 2024

University Of Mumbai, Mumbai, India
Bachelor of Engineering in Electronics and Telecommunication

July 2021

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C#, JavaScript, TypeScript, Shell Scripting
- **Front-End Development:** ReactJS, TypeScript, HTML, CSS, Tailwind
- **Back-End Development:** Node.js, Express.js, MongoDB, DynamoDB
- **Cloud Technologies & DevOps:** AWS, Azure Cloud, Azure DevOps, Docker, Jenkins, BitBucket
- **Data Management & Analysis:** SQL, PostgreSQL, Google BigQuery, ETL, Tableau, PowerBI, SAS

EXPERIENCE

Software Development Intern, ACT Inc., Iowa City

Jun 2023 – Aug 2023

- Successfully optimized data workflow from AWS and MS Access to PostgreSQL, significantly reducing processing time to under a minute. Spearheaded the integration of AWS Lambdas and Step Functions for efficient nightly data updates.
- Enabled real-time data retrieval from RDS for an internal portal through the development of REST APIs with API Gateway. Automated data update scheduling with AWS EventBridge, eliminating the need for manual tracking.
- Improved data accessibility by 87% by streamlining the flow between sources, tables, and queries, which facilitated a smoother transition to PostgreSQL and markedly reduced query execution times.
- Developed a user-friendly interface with React and TypeScript, enhancing backend-frontend communication, which led to increased team efficiency and heightened user satisfaction.
- Managed software development projects effectively, including organizing meetings with the project manager, overseeing ticket management, and ensuring thorough project documentation.

Data Engineer, DataCurate Technologies, Mumbai, India

Feb 2022 - Aug 2022

- Enhanced agent performance data accuracy by 38% by streamlining ETL processes, employing advanced data integration techniques with SAS Data Integration Studio to efficiently consolidate Oracle, PL/SQL, and PostgreSQL data sources.
- Spearheaded a personalized ad campaign strategy, leveraging integration of offline and online data, achieving a 56% increase in customer engagement by utilizing SAS Customer Intelligence 360.
- Implemented innovative methods to reduce campaign execution time, significantly enhancing marketing efficiency. This involved automating key processes and optimizing data workflows to facilitate faster campaign launches.
- Enhanced decision-making through improved data presentation by utilizing SAS Viya for the creation of real-time dashboards and reports, focusing on clarity and actionable insights for the team.

ACADEMIC PROJECTS

Protein Binding Prediction

Oct 2023 – Nov 2023

- Developed bash scripts to launch GPU jobs on a high performance computing cluster, enabling efficient hyperparameter tuning and model training on large biological sequence data.
- Proposed convolutional and recurrent neural network architectures for a protein binding affinity prediction task, comparing performance to baseline models; gained experience with end-to-end machine learning workflows.

Secure Login System with PostgreSQL Database Integration

Oct 2023 – Nov 2023

- Developed a robust web application employing client-side JavaScript for dynamic user interactions and server-side Node.js with Express.js to ensure secure authentication and seamless integration with a PostgreSQL database.

Stock Prediction using Viral Tweets and News

Sep 2023 – Nov 2023

- Leveraged statistical analysis and social media diffusion patterns on Twitter to develop an innovative method for early detection of stock price movements based on breaking news volumes, enhancing accuracy and insight into market trends.

Air Traffic Optimization System

Sep 2022 – Dec 2022

- Analyzed flight schedule data for over 2000 flights across 10 airports; developed a temporal graph algorithm to calculate maximum passenger capacity between LAX and JFK, improving on baseline by 27% while satisfying timing constraints

ACTIVITIES & AWARDS

- Career Consultant (ASU Career Services), Web Developer (Freelancing), Literature Circle Member (University of Mumbai), Article Writing Winner (International Society Of Automation).