Dip Patel

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EDUCATION

California State University, Sacramento   *Graduation: December 2024*
Bachelors of Science in Computer Science | GPA**:** 3.62/4.00 | Dean's Honors List
Relevant Coursework: Data Analytics, Data Visualisation, Software Engineering, Data Structures and Algorithms, Software Engineering.

SKILLS

Languages: SQL,Python, Java, Javascript.
Software/Tools: Tableau, Excel, Powerpoint, Word, Jira, Agile(methodology), ServiceNow.

RELEVANT EXPERIENCE

Student Intern   *Feb 2024 - Present*
Caltrans   *Sacramento, CA*
- Collected and sorted traffic collision reports (TCRs), ensuring accurate data entry into centralized databases.
- Assisted in geospatial coding of collision locations using GIS software, enhancing data precision and mapping.
- Utilized Microsoft Excel for data organization and analysis, demonstrating proficiency in spreadsheet management.

IT Assistant   *Jun 2021 - Dec 2024*
California State University   *Sacramento, CA*
- Streamlined classroom IT operations, reducing assistance wait time by 15% by effectively managing service requests and incidents via ServiceNow.
- Leveraged Excel to track service metrics, analyze trends, and generate actionable insights, which contributed to process improvements and optimized resource allocation.
- Designed and presented insightful PowerPoint presentations, effectively communicating recommendations to enhance IT operational efficiency.
- Constructed and optimized A/V technology setups for classrooms, ensuring seamless functionality for lectures and events.

PROJECTS

Senior Project (Academic)
- Collaborated with a team of eight members to develop a full-stack web application for a software solution client, improving customer experience and streamlining business processes.
- Developed and implemented RESTful APIs using Node.js and Express, ensuring seamless communication between the front end and PostgreSQL database, which resulted in a 30% improvement in data retrieval times.
- Utilized advanced SQL queries to optimize database performance, ensuring efficient data storage, retrieval, and management within the PostgreSQL database.
- Led the deployment of the application using AWS, ensuring a scalable and reliable infrastructure for hosting the application.
- Followed Agile methodology, actively participating in sprint planning, code reviews, and daily stand-ups to meet project deadlines and deliver quality milestones.
- Conducted comprehensive QA testing on the application, identifying and resolving issues to ensure smooth functionality, enhancing the user experience post-launch.

California County Household Computer Analysis Project
- Led a data analysis project, utilizing Python with Pandas and NumPy for data manipulation and analysis, to examine computer usage trends in California households over the 2015-2022 period.
- Created interactive Tableau dashboards to visually present findings, effectively highlighting key trends, disparities, and insights in computer usage across different counties.
- Used Tableau's advanced features, including filters, calculated fields, and dynamic visuals, to ensure an engaging and insightful presentation of the data, enabling stakeholders to make data-driven decisions.
- Fostered a deeper understanding of computer distribution and usage by providing clear and accessible data visualizations, supporting informed discussions and policy considerations regarding digital inclusion in California households.

CERTIFICATES:

- Extron AV Associates
- Python for Data Analysis: Pandas & NumPy
- Python for Data Visualization: Matplotlib & Seaborn

EXTRACURRICULAR:

ICPC Pacific Northwest Regional Coding Contest | Role: Team Participant
- Collaborated with teammates to solve complex coding problems, demonstrating strong teamwork and coding skills, and contributing to efficient solutions during the competition.

Career Fair Volunteer - California State University, Sacramento
- Assisted in booth setup and teardown, managed promotional materials, and worked with event organizers to ensure a smooth and successful career fair.