

# Sahil Dadhwal

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## EXPERIENCE

### Data Engineer Intern

April 2024 – Present

*BTIS*

*Sacramento, CA*

- Developed ETL pipelines to extract data into MongoDB, including a project using Jenkins via REST APIs
- Led a team of 6 in a project management capacity during critical meeting absences, resulting in on-time project delivery and improved team communication
- Automated deployment processes by uploading code to Jenkins and scheduling autonomous runs, applying CI/CD principles
- Migrated data to Snowflake data warehouse, ensuring synchronization with Power BI reports for multi-departmental insights
- Created and maintained 25+ Power BI dashboards, actively utilized by multiple departments for daily decision-making.
- Collaborated with cross-functional teams to deliver actionable insights and enhance reporting accuracy
- Worked closely with the CTO, successfully completing high-priority projects with tight deadlines

### IT Intern

June 2023 – April 2024

*Thakur Inc, U-Haul Dealership*

*Fairfield, CA*

- Successfully managed U-Haul truck rentals, ensuring seamless customer service and maximized vehicle utilization.
- Handled rental inquiries, reservations, and paperwork, maintaining accurate records and adhering to company policies

## PROJECTS

### Interactive Portfolio | *HTML, CSS, JavaScript*

June 2024 – July 2024

- Developed an interactive portfolio website with a macOS-inspired UI to effectively showcase skills and projects, attracting potential employers
- Implemented dynamic modals for project details, a music player, photo gallery, and system preferences
- Integrated drag-and-drop functionality and customizable background options for enhanced UX
- Ensured responsiveness and cross-browser compatibility across devices

### MetroPlanner | *HTML, JS, CSS, Google API*

April 2024 – May 2024

- Developed an interactive trip-planning web application by integrating Google Sheets API for real-time data synchronization and seamless user experience
- Engineered a feature that allows users to update trip details directly through the website, with changes dynamically reflected on Google Sheets, enhancing user interactivity and workflow efficiency

### Rating Prediction for Recipes (AI) | *Python, UC San Diego Project*

Nov. 2022 – Dec. 2022

- Built machine learning models to predict recipe ratings using linear regression, optimizing model parameters
- Conducted exploratory data analysis to improve feature selection and model performance

### BlackJack (AI player) | *Python, UC San Diego Project*

April 2022 – May 2022

- Developed AI systems using Monte Carlo Policy Evaluation and Q-learning algorithms for simulation and testing

## EDUCATION

### University of California, Davis

Davis, CA

*M.S. in Computer Science*

*Sept. 2024 – June 2026*

### University of California, San Diego

San Diego, CA

*B.S. in Computer Science, A.S. in Mathematics & Economics*

*Sept. 2019 – June 2023*

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, SQL, HTML/CSS, JavaScript, Bash, PHP, R

**Developer Tools:** Git, Docker, Jenkins, Power BI, MongoDB, Snowflake, Pandas, NumPy, PowerShell, Linux, API

**Libraries/Frameworks:** Flask, Bootstrap, React, Django