MICHELLE CHI

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EDUCATION

California Polytechnic State University, San Luis Obispo — San Luis Obispo, CA
Bachelor of Science in Computer Science, GPA: 3.4 — Sept. 2021 – March 2025
Relevant Coursework: Data Structures, Systems Programming, Discrete Structures, Data Science, Artificial Intelligence, Database Systems, Machine Learning, Software Engineering

WORK EXPERIENCE

Data Science Intern — Feb. 2025 – June 2025
California Department of Public Health — *Sacramento, CA*
- Developed a predictive model using Logistic Regression to anticipate adverse healthcare events, achieving 83% accuracy through in-depth data exploration
- Processed over 200 relational tables using Python in Databricks, uncovering meaningful patterns to support model development.
- Built entity-relationship diagrams and documentation to guide downstream analysis and visualization

Data Platform Assistant — April 2024 – June 2025
Cal Poly College of Engineering — *San Luis Obispo, CA*
- Designed and automated workflows using Excel, Power Automate, and Adobe Sign to reduce manual effort in tasks like form submissions and data entry
- Streamlined department processes by integrating connected platforms, improving the accuracy and efficiency of faculty and staff room assignments
- Provided technical support and created documentation to help staff independently manage and analyze operational data

IT Intern — June 2024 – August 2024
Terumo Neuro — *Aliso Viejo, CA*
- Built interactive Power BI reports integrated with Dataverse, delivering detailed insights and empowering data-driven decisions across global teams.
- Developed Power Apps tools for HR separations and IT equipment returns, automating email notifications and form submissions while improving data consistency
- Optimized internal workflows using Power Platform and DAX, reducing manual effort by over 10 hours per week and increasing operational efficiency

PROJECTS

JackRabbit | *JavaScript, React, Django, PostgreSQL, AWS* — March 2025
- Enhance the company's website by improving the maps system and refining the seller frontend profile
- Optimize user experience and integration of new features for better marketplace navigation and user interaction

PolyBuddy | *JavaScript, HTML, CSS, React, Node.js, MongoDB, Microsoft Azure* — May 2024
- Full-stack mobile application aimed to seamlessly guide students and faculty through the Cal Poly SLO campus, enhancing the overall campus experience
- Spearheaded intuitive features such as a React schedules component for visualizing classes and a map search page powered by Google Maps API for seamless navigation to class buildings

Spam Messages Filtering | *Python, Jupyter Notebook* — March 2024
- Classified SMS messages as spam or ham by implementing Naive Bayes and Decision Tree algorithms, achieving 98.8% and 96.9% accuracy, respectively
- Optimized preprocessing techniques, applied hyperparameter tuning, and analyzed the impact of spell-checking on model performance

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, Java, React, HTML, CSS, Scala, Spark, Hadoop
Developer Tools: PowerBI, Power Automate, Visual Studio Code, GitHub, MongoDB, Jira, Databricks, AWS