Katrina Suherman

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EDUCATION

University Of California San Diego   San Diego, CA
Bachelor of Science - Data Science - 3.93 GPA   *Sep 2023 – Mar 2026*

Edmonds College   Lynnwood, WA
Associate's in Applied Science - Computer Science - 4.0 GPA   *Sep 2021 – Jun 2023*

EXPERIENCE

Data Analyst Intern   Feb 2025 – Current
California Homebuilding Foundation   *Remote*
- Performed data entry and validation tasks, ensuring accuracy and consistency in housing industry records while assisting in organizing and managing large datasets to support research initiatives.
- Utilized Power Automate Desktop to automate repetitive data entry processes, significantly reducing manual effort and improving accuracy and efficiency.

Cyber Security Consultant Intern   Jun 2024 – Sept 2024
KPMG   *Jakarta, Indonesia*
- Conducted data-driven cybersecurity maturity assessments, analyzing structured risk datasets to identify critical vulnerabilities and provide actionable, data-informed recommendations to enhance fraud detection and risk management.
- Produced detailed reports and visual dashboards to communicate trends in cybersecurity metrics, translating complex technical findings into actionable strategies for executive stakeholders.

Executive Officer for Technology   Sep 2022 – Jun 2023
Edmonds College   *Lynnwood, WA*
- Redesigned the Technology Investment Committee to align resources with student needs using data-driven decisions.
- Collected and analyzed student feedback, driving improvements in technology services based on data insights.

Business Partner   Jun 2020 – Jun 2021
Allianz   *Jakarta, Indonesia*
- Analyzed market and client data to deliver personalized health insurance recommendations, leveraging data insights to optimize coverage and reduce risk.
- Synthesized client needs with insurance plan data to support data-driven decision-making, improving alignment between policy features and individual goals.

PROJECTS

Inside the OR: Interactive Surgical Outcome Explorer | Live Site   Jun 2025
- Designed a D3.js-based scrollytelling dashboard to visualize 6,000+ real-world surgeries from the VitalDB dataset.
- Implemented dynamic filters, tooltips, and time-series visualizations to compare surgical approaches and patient outcomes.
- Collaborated on data wrangling, chart rendering, and user interaction logic using JavaScript, HTML/CSS, and JSON.

Healthy Recipe Analysis | Project Link   Dec 2024
- Engineered features to enhance the dataset's predictive power, such as nutrient ratios and ingredient diversity scores.
- Built and optimized machine learning classification models using scikit-learn, achieving an 85% accuracy rate through iterative hyperparameter tuning.

Predictive Model for Damage Caused by Wildfires | Live Demo   Mar 2025
- Conducted EDA on 130k+ wildfire damage records and engineered key structural and property features.
- Utilized data preprocessing pipelines for consistent scaling, encoding, and imputation.
- Developed and tuned ML models using GridSearchCV, with XGBoost emerging as the top performer

LEADERSHIP

Datahacks Committee | *DS3 UCSD*   Sep 2024 – Jun 2025
- Researched hackathon themes aligned with industry trends, and created a judging scheme for evaluating submissions.
- Secured sponsorships from industry leaders fostering strong partnerships for event success.

Event Organizer | *PERMIAS Seattle*   Jun 2021 – Jun 2022
- Strategically planned event rundowns, attracting over 2,000 attendees by administering culturally significant themes that resonated with the Indonesian community and broader audience.
- Led a team of 30 volunteers, delegating tasks, and providing guidance to ensure efficient and successful execution.

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, HTML/CSS
Data Analysis: Exploratory Data Analysis, Feature Engineering, Predictive Modeling, Regression Analysis, Parameter Tuning
Tools: pandas, NumPy, scikit-learn, matplotlib, seaborn, Dask, Tableau, Power BI, Excel, Beautiful Soup, regex, Jupyter Notebook, Git/GitHub, PowerPoint, PostgreSQL, AWS, D3.js, Mapbox, SVG, JSON, Responsive Web Design, User Interaction Design