
LANNON KHAU

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PROFESSIONAL SUMMARY

Data Scientist and Software Engineer with expertise in data analysis, visualization, and application development. Proven track record in delivering data-driven solutions from ideation to completion.

SKILLS

- **Programming:** Python, JavaScript, HTML, CSS
- **Web Development:** Streamlit, RESTful API, Flask, Django
- **Data Analysis:** Pandas, NumPy, Seaborn, Matplotlib
- **Machine Learning & AI:** Scikit-learn, TensorFlow, OpenAI API, NLP
- **Database Management:** MySQL, PostgreSQL, SQLite
- **Version Control:** Git, GitHub
- **Data Visualization:** Seaborn, Matplotlib, Nivo, Plotly
- **Development Tools:** Jupyter, TKinter, Streamlit

WORK HISTORY

Data Quality Analyst, 04/2024 - Current

Scale AI – San Francisco, CA

- Analyzed performance metrics of AI language models, focusing on code generation and problem-solving capabilities.
- Increased efficiency in data analysis by 40% through creation of custom Python scripts automating 15+ repetitive tasks and saving estimated 20 hours per week across team.

Software Developer, 06/2022 - Current

InStack AI Solutions – Rowland Heights, CA

- Engineered and deployed comprehensive learning management system utilizing Python Flask, REST APIs, PostgreSQL, and Heroku, which streamlined operational processes and improved data-driven decision-making.
- Innovated data visualization techniques using advanced data science libraries, achieving client metric dashboard that enhanced user experience and contributed to 90% increase in customer retention.

Data Analyst, 05/2021 - 02/2023

Robotogie LLC – Pasadena, CA

- Developed advanced data visualizations that uncovered hidden trends in student performance, resulting in 3 policy changes that improved overall student achievement scores by 15% within one academic year.
- Conducted A/B testing on new teaching methodologies, analyzing results from 250+ students, which led to the implementation of a new curriculum that boosted standardized test scores by an average of 10 percentile points.

EDUCATION

Bachelor of Arts: Information Systems and Decision Sciences, 08/2021

California State University - Fullerton, CA

PROFESSIONAL PROJECTS

ExoExplorer: Machine Learning and AI-Enhanced Exoplanet Analysis

- Applied advanced machine learning techniques, specifically multi-variate regression, to analyze 4,000+ confirmed exoplanets from NASA's Exoplanet Archive.
- Developed a predictive model for habitability scores with 85% accuracy, utilizing 8 key habitability indicators including atmospheric composition, planetary mass, and Goldilocks zone.

AI-Powered Real Estate Chatbot | A+ Realty & Mortgage Solutions

- Engineered a sophisticated AI chatbot utilizing OpenAI's API, processing over 500 unique real estate queries weekly with a 94% accuracy rate in understanding and responding to complex questions.

Chiropractic Patient Management System | Body RES

- Designed a SOAP notes system handling 200+ daily entries, improving documentation efficiency from 10 minutes to 7 minutes per note (30% faster).
- Integrated a treatment plan tracker monitoring 15 different therapy types, boosting patient adherence from 70% to 84% (20% increase).