Dane Kelii

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Education

University of California, Irvine   Sept 2023 – June 2027
BS in Chemical Engineering & BA in Business Economics

- Math Minor & Biomolecular Engineering Specialization

Experience

Kumon - Tustin, CA   Jan 2023 – Sept 2023
Assistant

- Guided students in mastering concepts and fostering independent learning in a classroom setting.
- Designed personalized learning schedules, ensuring measurable academic progress.
- Collaborated with a team to streamline operations and deliver a consistent, high-quality educational experience.

Projects

Finance Website   Sept 2024 - Present
Lead Developer

- Developing a financial tool featuring a Dividend Calculator and Discounted Cash Flow model using React.js and Yahoo Finance Python library
- Integrating EDGAR APIs while using MySQL, Node.js, and XAMPP for seamless front-end and back-end functionality.
- Streamlining workflows with tools like Vite and GitHub to ensure efficient development and version control.

Machine Learning in Healthcare   Sept 2024 - Present
President

- Leading the development of a machine learning model to predict heart disease using the CDC Diabetes dataset.
- Organizing workshops to upskill members in Python, data analysis, and machine learning techniques.
- Managing project timelines, model evaluation, and member collaboration for impactful research outcomes.

ChemE Car   Oct 2023 - Present
Starting Team Engineer

- Designed a CO_2 generation system using sodium bicarbonate and acetic acid to power a turbine-driven car.
- Conducted experiments to optimize reaction efficiency, pressure regulation, and safety protocols.
- Analyzed system performance and implemented improvements for competition-readiness.

Rover Project   Jan 2024 - Mar 2024
Team Leader

- Led a 6-member team to design and construct a functional rover using SolidWorks for CAD and Arduino for programming.
- Implemented line-tracking algorithms and integrated a Pixy Cam sensor for automated navigation.
- Managed budgeting and task delegation, ensuring timely delivery of project milestones.

Additional Information

Skills: Microsoft Office, Excel, PyTorch, Node.js, React.Js, AWS, Financial Modeling, Canva

Languages: Python, SQL, HTML/CSS/JS, MATLAB, R

Certificates: Excel Crash Course (WSO), DCF Modeling (WSO), Real Estate Sales (IVC)

Relevant Coursework: Econometrics, Financial Investments, Microeconomics, Macroeconomics, Accounting, Statistics, Differential Equations, Linear Algebra, Calculus I-III

Interests: Chess, Tennis, Bouldering, Programming, Stocks, Options, Poker