

KUNAL RAI

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EDUCATION

Rice University

2017 - 2021

Major: B.S. in Electrical Engineering

Specialization: Data Science **Minor:** Business

Relevant Coursework: Computational Thinking, Algorithmic Thinking, Data Analysis, Signals & Systems, Random Signals, Financial Accounting, Marketing, & Economics

EXPERIENCE

Chevron Corporation

May 2019 - August 2019

Data Science Intern

- Developed Machine Learning model to predict total production of non-declining oil wells with 25% mean error (Python)
- Developed Machine Learning models and algorithms to optimize well data for oil decline curve analysis using DataRobot
- Analyzed raw well data set to design algorithm to pre-process well data using Spark and SQL

Lockheed Martin Aeronautics

May 2018 - August 2018

Software Engineering Intern F-35 Program

ITAR and DOD Security Clearance

- Designed and developed a standalone tool to automate and predict monetary value of F-35 software changes worth \$500M+
- Reduced prediction time by 65% by aggregating estimations, customer experiences, and feedback
- Analyzed the F-35 controls system software updates integrity and tested redundancy through flight simulation

Jones Graduate School of Business

Jan 2019 - Present

Research Assistant for Professor of Finance

- Conducted analysis on location data to determine relationships between economic events for certain profiles (Python)
- Reduced data filtering time by 75% through efficient pre-processing algorithms using Dask and Pandas

Rice University

August 2018 - May 2019

Teaching Assistant

- ELEC 220: Guided 20 students through labs related to data representation, computer organization, and basic assembly
- ENG 120: Mentored four engineering students on technical writing and presentation skills to improve their grades to A's.

Product Designer

August 2018 - Present

Independent

- Led design team through full product life cycle from research, design, implementation, and production of merchandise
- Sold \$11k custom designed merchandise to Rice students, organizations and events
- Reduced merchandise cost by 15% by negotiating with suppliers, designers, and campus organizations

SKILLS

Programming Languages

Python, Visual Basic for Applications, SQL (some)

Software & Skills

DataRobot, Azure, Spark, Git, Jupyter, Product Management & Project Management

LEADERSHIP & EXTRA-CURRICULAR

IEEE - Vice Chair, Led department initiative to centralize communications between faculty & students

2019 - Present

Rice Undergraduate Investment Fund - Senior Portfolio Review Analyst, Technology Sector

2018 - Present

Web Developer - Created personal website and edited websites to improve design and user experience

2018 - Present

Rice FinTech - Secretary, Developed curricula to teach students about fintech, coding, and finance

2017 - 2018

AWARDS

PWC Competition - Placed 3rd out of 800 submissions for best final presentation at Rice

2018