
Eric Kim

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Portfolio – <http://aegis4048.github.io>



Education

The University of Texas at Austin – Bachelor of Science | May 2020
Petroleum Engineering | Minor in Computer Science
Major GPA: 3.38/4.00 | Cumulative GPA: 3.42/4.00

Experience

- May 2018 – Dec 2018 **Web Development Intern – Intellicess**
- Designed a real-time drilling monitoring system that visualizes & updates data on web application
 - Developed front-end UI, back-end framework, and DB structures for the drilling data management prototype
 - Provided dev-ops assistance in setting up Linux server & network configuration
- Sep 2017 – May 2018 **Research Assistant – Rig Automation & Performance Improvement in Drilling**
- Assisted in quantifying relationship between rock strength and mechanical specific energy
 - Studied indicators for drilling malfunctions
 - Developed an automated PDF parsing program that interprets data from PDF drilling morning reports
 - Provided programming assistance in cleaning, processing, and managing raw drilling data in NoSQL database

Projects

- Jan 2019 – Present **Pythonic Excursions – <http://aegis4048.github.io>**
- Personal blog where I post articles related to Python, data science, statistics, and web development
 - Developed proficiency in statistical uncertainty modeling, spatial data analysis, kriging, and geostatistical simulation
 - Designed and developed all front-end and back-end components of the blog

Contests

- Spring 2018 **Society of Petroleum Engineers Local Paper Contest - Participant**
- Presented the application of neural network algorithm to decrease uncertainty in shale plays
- Spring 2017 **The Energy Case Competition - Finalist**
- Provided natural gas vehicles as a solution to growing energy demand & climate change issues
 - Integrated Spotfire, MATLAB, and Excel to analyze data from public sources

Skills: Python, Django, PostgreSQL, TimescaleDB, Javascript, jQuery, HTML, CSS, Spotfire, MATLAB