RAYMOND CHAI

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RELEVANT EXPERIENCE

Springboard, *Data Scientist Fellow*, Boston, MA   *May 2021 – Current*

- Build regression and classification models for varying business problems utilizing statistical techniques like t-test, Pearson's correlation, and Predictive Power Scores
- Perform data wrangling on varying sizes of data samples (structured and unstructured) to generate cleaned tables and visuals (histograms, bar plots, box plots, et cetera) for data analysis via SQL and Python
- Revise models for capstones and mini GitHub projects in weekly reviews with senior data scientist mentor
- Extract data via APIs, such as NASDAQ API and time series data sets
- Complete 100+ hours in DataCamp for trainings and lessons in SQL, Python, Data Analytics, and Machine Learning

Vanderweil Engineers, *HVAC Mechanical Engineer (EIT)*, Boston, MA   *June 2018 – October 2021*

- Created custom data infrastructure/asset taxonomy for Google's data engineers, cutting data processing time by over 50%, saving weeks of engineering labor and streamlining data center maintenance and operations
- Routinely handled raw data extraction from Mechanical Engineering Software (REVIT) and performed data wrangling for structured data in Excel (i.e. numerical and categorical imputation)
- Delivered and presented reports for key stakeholders using data visualizations of mechanical pipe failure analyses, optimizing hydronic system designs for failure conditions
- Created and revised AutoCAD and REVIT drawings for mainly data centers, projects covering 30-40% of company's projected yearly revenue of over $50 million
- Served as lead engineer for HVAC data center projects across the United States in coordination with sub-contractors and project managers

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SKILLS & LICENSES

- **Programming:** Python (Numpy, Pandas, Seaborn, Matplotlib, Scikit-Learn), SQL, MATLAB
- **Data Visualization/Tools:** Excel, Powerpoint, Google Slides, Jupyter Notebook
- **Databases:** MySQL, PostgreSQL, SQLite
- **Thermal and Stress Analysis:** COMSOL, AutoPIPE, Pipe-Flo
- **Computer-Aided-Design (CAD) Software:** Solidworks, PTC Creo Parametric, AutoCAD, REVIT
- **License:** Board of Registration of Professional Engineers and Land Surveyors (License #: 25981, August 2019)

OTHER EXPERIENCE

R.W. Sullivan Engineering, *HVAC Mechanical Engineer (EIT)*, Boston, MA   *July 2022 – Current*

- Captured scope and designed over 20 projects for production in AutoCAD and REVIT with senior engineers
- Reviewed submittals and requests-for-information (RFIs) for construction administration paperwork
- Collaborated with clients to review and revise drawings to meet design intent in routine meetings
- Handled and reviewed HVAC LEED documentation for projects attempting LEED certification

Supplier Diversity Office, *SDO Certification Customer Service Representative,* Boston, MA   *May 2022 – July 2022*

- Aided 300+ businesses across the United States in attaining Massachusetts SDO Certifications for government contracts
- Managed large volumes of outbound calls and emails daily, and troubleshooted renewal application problems
- Researched business information, cleaned government Excel spreadsheet data, and revised CERTRAK database

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EDUCATION

SPRINGBOARD, *Data Science Career Track*, Remote   *Expected July 2023*
BOSTON UNIVERSITY, *Bachelor of Science in Mechanical Engineering*, Boston, MA   *May 2018*