CURTIS RUDER

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Skills

Aspen HYSYS	Aspen PIMS	C++	C#	CSS
Git	HTML	HTTP	Java	Javascript
JSON	MS Office	SASS / SCSS	SQL	Subversion
VB.Net	VBA	Visual Studio	VS Code	XML

Experience

Imubit — Houston, TX — 2022 – current

Senior Refining and Petrochemical Process Optimization Engineer — 2022 - current
- Applying machine learning technology to continuously optimize live manufacturing processes
- Define process optimization strategies in collaboration with internal and client economic teams
- Interact with clients to incorporate feedback and better apply machine learning techniques

Baker & O'Brien — Houston, TX — 2017 – 2022

Engineering Consultant — 2019 - 2022
- Worked on multiple client projects leveraging experience and technical capabilities to delivery high quality work on time and on budget
- Conducted market analysis on nearly all refining centers in the U.S.
- Developed IMO2020 predictive model and presented results at industry conference

Software Product Manager and Lead Developer — 2018 - 2022
- Set software strategy, vision, and marketing objectives for commercial application *PRISM™*
- Lead developer accomplishing code base conversion from VB6 to VB.Net, database migration from Access to SQLite, and nearly 80% runtime reduction in critical application functionality
- Data entry automation using browser automation, API end points, and direct HTTP requests

Refinery Modeling Specialist — 2017 - 2022
- Maintain and improve refinery process models for all 125 U.S. refineries
- Parse nearly 25,000 data points per quarter to create industry look back
- Interface with software subscribers to share industry insights
- Leveraged automation and self-created LP framework to eliminate 200 man-hours per month from the data calibration process

Flint Hills Resources — Corpus Christi, TX — 2012 - 2017

E&P Planner — 2015 - 2017
- Supported all gasoline blending activities and temporarily all distillate blending
- Identified and championed several multi-million-dollar optimization opportunities
- Calibrated LP yield profile for all conversion units and distillate hydrotreaters

Process Engineer / Equipment Strategy Engineer — 2012 - 2015
- Aspen HYSYS site lead for process unit modeling
- Supported FCC, fixed bed alkylation, coker, and HF alkylation units
- Mentored four process engineers as temporary team lead

NCRA Refinery (CHS Inc) — McPherson, KS — 2009 - 2012

Process Engineer — 2009 - 2012
- Supported refinery crude and light ends units
- Lead overnight Process Engineer on major refinery turnaround

Education

Fort Hays State University	**B.S. Computer Science (4.0 / 4.0)**	2020 - 2022
Texas A&M – Corpus Christi	**MBA Finance Concentration (3.9 / 4.0)**	2016 - 2019
Kansas State University	**B.S. Chemical Engineering (3.6 / 4.0)**	2004 - 2009