Dennis Liu

Software Engineer

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SKILLS

Strong: JavaScript, React, HTML5, CSS3, SQL *(SQL Server, Postgres)*, Markdown
Experienced: Node.js, Express, Bulma, Python *(PySpark/Databricks, pandas, Streamlit)*, Excel *(VBA)*, Azure
Tools: Git, Github, Figma, Webpack, Babel, VS Code, Bash, npm, Chrome Dev Tools, Jupyter

APPLICATIONS DEVELOPED

NapkinNotes (Solo project) 🔗

A full stack web app for coders to illustrate code ideas

- Developed drawing application using React that converts mouse movement to drawn SVG paths
- Designed text tool component that converts user input into rendered Markdown with code syntax highlighting
- Integrated PostgreSQL database for persisting drawings using Express server routes on Node.js runtime

Where Do I.Art? (Solo project) 🔗

A web app for the art curious to discover what art they enjoy

- Implemented responsive artwork display by caching AJAX calls to public API, significantly cutting down loading times
- Developed interactive, live-updated gallery pane with responsive expand ability using CSS and JavaScript
- Prepared app design by creating wireframes using Figma to ensure experience cohesiveness and reduce technical debt

PROFESSIONAL EXPERIENCE

Data Scientist/Data Analyst III   12/2019 – 05/2022

CorVel Corporation   Irvine, CA

- Communicated with domain experts and DBAs for feature engineering to develop claim litigation prediction model
- Presented model training results to nontechnical business operations leaders for implementation approval
- Developed prototype for automating claim matching of scanned documents using OCR services and NLP models
- Advised on developing data science technology stack and long-term strategy in expanding data science department

Data Analyst I, II   12/2016 – 12/2019

CorVel Corporation   Irvine, CA

- Designed ELT process for new product with C-Level visibility loading 100 million+ records per month in PySpark and SQL using Azure Databricks and Azure SQL Data Warehouse
- Promoted to lead on main customer-facing report, training and leading a team of three on SQL and VBA based process
- Standardized process for quarterly report, minimizing errors while achieving a 75% reduction in working hours
- Developed SQL-fed Excel reporting for customer auditing team that streamlined manual processes, saving 600+ hours
- Manipulated a dataset of more than 70 million records with SQL Server using complex joins, subqueries, CTEs, and multiple batching techniques to calculate price indices

EDUCATION

Full-Immersion Web Development Program, LearningFuze   05/2022 – 08/2022
800+ hours of programming over the course of 14 weeks

Bachelor of Arts, Astronomy-Physics, Colgate University   08/2011 – 05/2015
Dean's Award for Academic Excellence
Phi Eta Sigma National Honor Society