Simon Bui

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PROJECTS

Meeting Schedule Tracker (TypeScript, Node.js, Express, MongoDB, React)
- Built an application that allows users to schedule, reschedule, cancel, and view other users' meeting times
- Designed a backend REST API to store and handle user meeting data in a NoSQL database
- Used Axios to transfer JSON data between client and server to populate the calendar and agenda UI

Online Game Damage Calculator - www.trixion-calculator.com (JavaScript, React)
- Developed a web application to compute the efficiency given a user's selected item combination, allowing players to make better informed purchasing decisions; deployed using Netlify
- Managed React states to provide dynamic results upon viewer interaction with the UI

User Interface for Detecting Anomalous Packets - Commnet Wireless LLC (Python, Flask)
- Created a front-end UI with Python and Flask that pulls data from a SQLite database upon receiving POST requests
- Aggregated data based on user selections to visualize the last 7 days of packet data, allowing engineers to see anomalous packets as a signal for intervention
- Provided well-documented and unit tested code for the client to modify for future infrastructural changes

Book Cover Ratings Prediction (Python, BeautifulSoup)
- Used BeautifulSoup to extract over 6000 book cover images and performed data processing using Python
- Trained machine learning classification models that predicts a book's rating based on its cover art with ~70% precision

PROFESSIONAL EXPERIENCE

Data Analyst | PrescribeWellness | Oct 2021 - Present
- Automated data verification via Python, ensuring data integrity and compatibility with database procedures
- Utilized SQL and Python to identify data related issues that resulted in bugs on clients' UI or services
- Leveraged regular expressions to automate error handling of vaccination data transmission to state government agencies
- Acted as a technical liaison between client support, project managers, software engineers, and data engineers
- Compiled information on database and code logic from historical Jira tickets, Confluence, and Salesforce to contribute towards internal documentation
- Aggregated data from Oracle and SQL Server databases for third parties and inter-departmental reporting

eBooks Publisher | Self-employed | Sept 2018 - Dec 2021
- Started an eBooks publishing operation consisting of several writers, artists, and editors for Amazon's Kindle store
- Evaluated market trends to optimize project directions and advertising (social media, subscription emails, etc.)

Pharmacy Technician | Walmart Pharmacy | Nov 2016 - Jul 2020
- Analyzed prescription pick up (sales) trends to recommend operational changes addressing patient adherence rates, a critical KPI; recommendations led to an increase in patient adherence from 65% to 80.5% within 1.5 years (one of the largest improvements in the market)
- Queried and aggregated historical drug sales data over a 5 year window; visualized the aggregated sales trends to optimize automatic inventory replenishment systems resulting in savings of up to $30k per month

SKILLS

Programming & Technologies: JavaScript, TypeScript, Node.js, Express, React.js, Python, Flask, SQL, HTML/CSS
Other: Git, machine learning, Jira, Confluence, Salesforce, APIs, object-oriented programming

EDUCATION

Georgia Institute of Technology
MS Analytics, 2020 - 2022

University of California, Irvine
BS Pharmaceutical Sciences, 2012 - 2017