





Mark Yen

SOFTWARE DEVELOPER

Software developer with years of experience in data analytics in the finance, technology, and manufacturing industries. Seeking to apply object-oriented programming skills with prior experience to develop cutting edge solutions at a data-driven company.

CONTACT

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TECHNICAL SKILLS

Languages + Frameworks

Ruby on Rails
PostgreSQL (SQL)
HTML/CSS

Continuously Learning

Python
GraphQL
Javascript

TOOLS + PRACTICES

Systems

GitHub
Postman
Heroku

Practices + Processes

API Consuming / Exposing
ReSTful APIs
Test Driven Development (RSpec)
Continuous Integration (Travis)

EDUCATION

Backend Software Engineering

Turing School of Software & Design / 2021
Denver, CO

Master of Business Administration

University of Southern California
Los Angeles, CA

Bachelor of Arts (Psychology)

Washington University in Saint Louis
Saint Louis, MO

SOFTWARE PROJECTS

Drink This

[GitHub](#) | [Heroku](#) | Six-Person Group Project (10 days)

Tech Stack: Ruby on Rails | Python (via PyCall) | PostgreSQL | Javascript | React | Tailwind/CSS

A cocktail web application, using an euclidean distance method, that provides accurate recommendations to a user based on user cocktail ratings when compared to other users ratings:

- Primarily created the backend with Ruby on Rails, importing python libraries, such as Pandas, NumPy, and SkLearn, via PyCall, to build a memory-based recommendation model
- Consumed TheCocktailDB APIs for search by id and search by cocktail name
- Resulted in placing second at Turing's Demo Competition

Sweater Weather

[GitHub](#) | Solo Project (6 days)

Tech Stack: Ruby on Rails | PostgreSQL | JsonAPI-Serializer | FactoryBot | Faker | VCR | Webmock

A mock road trip web application that provides the frontend with six endpoints by consuming four APIs on weather, breweries, images, and geolocation:

- Built a rails application from scratch to consume APIs from Open Weather, Open Brewery DB, MapQuest Geocoding, and Unsplash images
- Exposed user registration and login session endpoints for frontend

PROFESSIONAL EXPERIENCE

Finance Manager

Charles Schwab & Co. / 2017 – 2020

Managed life cycle of a \$100M quarterly financial budget for the sales team and provided financial metrics using statistical modeling such as logarithmic function

- Briefed senior leadership on financial metrics to drive decision-making on sales benefits
- Designed and developed income statements and metrics for various products and service lines to help senior business leadership interpret data of year-over-year results

Senior Finance Analyst

Ball Corporation / 2015 – 2017

Led forecasting process of \$4B in annual revenue, developing and maintaining price volume mix metrics of products and customer acquisitions, resulting in focus on high-margin products

- Drove revenue planning and forecasting rhythm by partnering with business teams (pricing, logistics, planning, and marketing) to set sales targets and explain variances
- Analyzed price and cost of sales volume mix and advised leadership on drivers of margin

Treasury Advisor

Dell Corporation / 2011 – 2015

Developed and executed a plan for driving efficiency in Dell's global liquidity through direct cash flow forecasting and maintaining working capital levels to satisfy over \$3B in debt obligations

- Partnered with tax, legal, accounting and overseas finance teams to repatriate \$3B in excess cash, with limited tax implications, for relieving debt obligations to the company

Senior Consultant

Booz Allen Hamilton, Inc. / 2006 – 2008

Contributed as a subject matter expert on a business proposal for a government agency contract that resulted in a \$6M award over several years

- Standardized the publication process of the client's program for the production of analytical assessments that became the official process for the government agency