William J. Wang
Back-End Software Engineer

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SKILLS

- **Languages/Frameworks**: Ruby, Ruby on Rails, ActiveRecord, SQL, HTML, CSS, Python
- **Testing**: Test Driven Development, RSpec, WebMock, VCR
- **Tools**: Git, Github, CircleCI, Rest APIs, PostgreSQL, Heroku, Microsoft SQL Server, GraphQL, Postman
- **Other**: OOP, RESTful Development, Agile workflow, MVC Architecture

PROJECTS

Streamr – BE Repository │ FE Repository │Group Project │ 17 Day Timeline
- Built with: Ruby on Rails, PostgreSQL, GraphQL
- Designed and built an application for searching and recommending tv shows
- Worked with a back-end team of 4 and in collaboration with a separate 3-person front-end team using daily stand-ups, project retros, and code reviews to maintain an agile workflow
- Aggregated data from The Movie Database's API to streamline data access
- Learned how to implement GraphQL types and queries to create GraphQL endpoints

Epitrac – BE Repository │FE Repository │ Demo Video │ Group Project │ 9 Day Timeline
- Built with: Ruby on Rails, PostgreSQL
- Used a Service-Oriented Architecture with a separate front and back end, consuming the CDC Science Clips API and CDC NNDSS Weekly Data API endpoint
- Utilized error handling and fully tested API exposure with serializers, created REST endpoints for users to save articles, implemented user registration and authentication using Google's OAuth 2.0

Battleship – Repository │ Pair Project │ 9 Day Timeline
- Built with Ruby, RSpec
- Leveraged test-driven development and object-oriented programming to build a command line implementation of the game Battleship with a partner, using code reviews and pair programming
- Created separate classes to render the board, validate ship and shot placement, with customizable board size and intelligent computer shot placement

WORK EXPERIENCE

XM Data Strategies, Inc. - Data Analyst Internship   February 2022 – May 2022
- Developed Python script to scrape local area unemployment data from the Bureau of Labor Statistics (BLS) website into a pandas dataframe and store that data in SQL Server
- Created views within SQL Server to organize data from BLS based on state, seasonality, etc.

University of Hawaii John A. Burns School of Medicine   Honolulu, HI
Bioinformatics Lab Assistant- Deng Lab   March 2021 – July 2021

EDUCATION / CERTIFICATIONS

Turing School of Software and Design   Aug. 2022 – March 2023
- 1500 hours of programming experience over a 7-month intensive, ACCET-accredited software development program

University of Illinois at Urbana-Champaign   Aug. 2017 – Dec. 2020
B.S. Molecular and Cellular Biology   College of LAS

Python Institute PCAP – Certified Associate in Python Programming