

David Wang

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Relevant Links: [LinkedIn](#) | [GitHub](#)

Programming Languages: Python, JavaScript, C++, Golang, C, Java, Bash Script, Makefile, MIPS (Assembly)

Web Technologies: ReactJS, VueJS, HTMX, HTML, CSS, JQuery, AJAX, Bootstrap, SQL, php, phpMyAdmin, WordPress

Technologies/Libraries: Git, BeautifulSoup, Requests Library, REST, Docker, VS Code, Visual Studio, Verilog, Regex

Certifications: Oracle Cloud Infrastructure 2023 Certified Foundations Associate

EDUCATION

Rensselaer Polytechnic Institute (RPI)

Aug. 2022 – May 2026

B.S. Computer Science and B.S. Information Technology Web Science

- Awards/Honors: Rensselaer Leadership Scholarship, Dean's Honor List (Fall 2022, Spring 2023, Fall 2023)
- GPA: 3.65/4.0
- Courses: Introduction to Algorithms (Current), Principle of Software (Current), Foundation of Computer Science, Computer Organization, Web Systems Development, Data Structures

WORK EXPERIENCE

Rensselaer Polytechnic Institute

Jan. 2024 - Present

Undergraduate Research Assistant

- Working with Dr. Szymanski as an undergraduate researcher
- Explore networks that produce undirected weighted networks with overlapping nodes to find the Normalized Mutual Information (NMI) score using Python

Rensselaer Polytechnic Institute

Jan. 2024 - Present

Undergraduate Teaching Assistant

- Grade homework, quizzes, and tests for Foundations of Computer Science (CSCI 2200)
- Work with course staff to ensure students grasp course material and assignments

State Insulation Inc.

May. 2023 – Aug. 2023

IT Intern

San Diego, CA

- Managed and updated Asset and Inventory database which improved organization through increasing the database by over 50% across multiple locations
- Tier 1 Tickets with Remote Desktop Protocol, Hardware/Software troubleshooting, Software Installation, and Hardware maintenance/upgrades allowing for increased 23% productivity in coworkers through tickets
- Tasked with solo projects such as web page redesign, workflow reconstruction, and digitalization of resources which improved functionality and ease of access with workflow

PROJECTS

Data Connosieur | [Github Code](#) | (C++ (Microsoft Foundation Class), Git)

2023

- Team lead of 8 on an open source project under Dr. Kruger at RPI which entails the development of a software package to support in-class instructions of data science methods and machine learning methods
- Developed the Linear Classification method by employing computations on training datasets to enable model training for accurate data classification.

Amazon Product Price Monitor App | [Github Code](#) | (Python, BeautifulSoup, Requests Library, smtplib Module)

2023

- Web scraping Python script that emails the user if a selected product(s) on Amazon has decreased in price
- Performed GET requests using Requests library, parsed requests with BeautifulSoup, Emailing used smtplib Module, uses delay from time module to allow for routine checks

Resume Rensselaer | [Github Code](#) | (HTML, CSS, JavaScript, PHP, SQL, phpMyAdmin, git)

2023

- ITWS 2110 final project, Collaborated in a team of 5 to create a webpage for RPI students to be able to create a resume with ease just based on a form submission.
- Enhanced the frontend components, including the About page and additional information sections. Took an active role in refining CSS and HTML across various pages. Played a key role in backend development, leveraging PHP and SQL to implement crucial aspects of the login system.

Degree Doctor | [Github Code](#) | [Demo](#) | (Vue, Quasar, CSS, git)

2023

- Conceptualized/executed frontend features with a team of 5 on a webapp for RPI students to manage their degrees.
- Implemented a feature that allowed students to view their credits in their degree plans as well as improved UX through updating UI functionality.

Pass with EASE | [Github Code](#) | (HTML, CSS, JavaScript, PHP, SQL, phpMyAdmin, git)

2023

- ITWS 1100 final project, Collaborated in a team of 3 to create a webpage for RPI students to access previous exams and study materials for RPI courses.
- Elevated the frontend components through CSS and Javascript animations for the homepage, log-in, and sign-up pages.