

David Wang

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EDUCATION

Rensselaer Polytechnic Institute (RPI)

Expected May 2026

Bachelor of Computer Science, Bachelor of Information Technology Web Science

GPA: 3.78/4.0

- **Courses:** Data Mining, Programming Languages, Discrete Math, Data Structures and Algorithms
- **Activities:** Gamma Nu Eta Secretary, Upsilon Pi Epsilon, Society of Asian Scientists and Engineers

EXPERIENCE

Amazon | *Software Engineer Intern*

May 2025 – Aug 2025

- Incoming Summer 2025

84.51° | *Software Engineer Intern*

Jan 2025 – May 2025

- Incoming Spring 2025

Upstate Bicycle Works | *Project Manager, Software Engineer*

Aug 2024 – Dec 2024

- Led a **6-person** team in developing a customer service portal, delivering **\$5,960** in annual benefits by reducing customer support inquiries, automating service notifications, and driving an increase in overall sales.
- Improved user satisfaction by bridging technician-customer communication gap through real-time bike-in-service status tracking and automated repair updates.
- Integrated Lightspeed API to synchronize service data for **500+** active customers, enabling repair status tracking.

Harp Research | *Software Engineer Intern*

May 2024 – Aug 2024

- Developed a user creation flow utilizing Microsoft login by creating an OAuth flow that retrieves user information from Graph API and enables Outlook email CRUD functionality through creating a grant utilizing Nylas API.
- Deployed a dockerized instance of a PostgreSQL and Redis cache server to reduce latency between Prisma ORM queries by **78%** in order to have easier access of information that would otherwise need multiple different APIs.
- Reduced data processing time by **25%** on datastreaming dashboard by optimizing Plotly.js data visualizations

Network Science and Technology Center | *Undergraduate Research Assistant*

Jan 2024 – May 2024

- Improved runtime of experimental algorithm on large datasets by **32%** by parallelizing computation processes.
- Implemented community detection and hierarchical clustering methods onto datasets of over 20,000 tweets.
- Utilized matplotlib, networkx, scikitlearn Python modules for network clustering and community analysis.

Rensselaer Polytechnic Institute | *Undergraduate Teaching Assistant*

Jan 2024 – May 2024

- Grade homework, quizzes, and tests for Discrete Mathematics (CSCI 2200) for over **100+** students.
- Work with course staff to ensure students grasp course material and assignments and hosted office hours.

PROJECTS

Boba Bliss | *React Native, Typescript, Flask, MongoDB*

- Won **1st place** for the BobaTalks Hackathon by creating a Boba Dating app to match Boba lovers with a Boba.
- Implemented endpoints using Flask for viewing and creating boba matches to allow for a recommendation system.

Budget Buddy | *Next.js, React, Express.js, MongoDB, Typescript, Firebase, Microsoft Azure, git*

- Collaborated in a team of 5 to implement a budget tracking application targeted at clubs and organizations.
- Implemented backend API endpoints using Express, connecting MongoDB and Firebase for user authentication.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, TypeScript, Golang, PHP, Bash, Makefile

Frameworks: Next.js, React, React Native, Vue.js, Express.js, Flask, jQuery, Node.js, Tailwind, Bootstrap, D3.js, JUnit

Tools: Git, Docker, Microsoft Azure, AWS, SQL, MySQL, PostgreSQL, MongoDB, Regex, Verilog, phpMyAdmin

Concepts: Web Frameworks, Frontend, Backend, Fullstack, Databases, REST API, Cloud Computing, Agile, Software Engineering, Machine Learning, Data Structures and Algorithms, Data Science, Data Analysis, Data Visualization, Systems, DevOps, Version Control, Human Computer Interaction, Microservices, Containerization, Deep Learning