

# RICK DJOUWE

Worcester, MA 01610 | (805)-612-7924 | rwoubinwoudjouwe@worcester.edu

## SUMMARY

Computer Science senior with production experience building and deploying secure backend systems using Python and modern JavaScript stacks. Proven impact in enterprise automation, REST API development, and JWT-based authentication.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, JavaScript, PHP, SQL

**Backend & APIs:** Node.js, Express.js, RESTful APIs, JWT Authentication

**Frontend:** HTML/CSS, React, Vue.js,

**Databases & ORM:** PostgreSQL, MySQL, MongoDB, Prisma

**Tools & Platforms:** Bitbucket, Git, VMWare, Excel, Power BI, Data Analysis, Selenium, Bitbucket, Automation Anywhere, Web Scraping

## EDUCATION

### Worcester State University

Worcester, MA

- Computer Science Major – 4.0 GPA | **Expected Graduation - 05/2026**

- Awards: Multiple Excellence Scholarships Recipient, Dean's List, The Dr. Elizabeth V. Foster Scholarship Recipient.

## WORK EXPERIENCES

### Personal Lines Automation Developer (Part-Time)

Worcester, MA

*The Hanover Insurance Group*

08/2025-12/2025

- Maintaining and enhancing Python automation scripts to streamline policy processing and improve operational efficiency.
- Monitoring endorsement workflows and troubleshooting automation issues to ensure smooth downstream processing.
- Collaborating with business teams to identify new automation opportunities and implementing cost-saving solutions.

### Personal Lines Automation Developer Intern

Worcester, MA

*The Hanover Insurance Group*

06/2025-08/2025

- Built Python automation to process policy endorsements, cutting manual work by 40% and improving accuracy.
- Converted RPA bots to Python, reducing failure rates by 30% and lowering licensing costs through open-source tools.
- Analyzed cyber policies enrollment data with Excel & Power BI, delivering actionable insights to the leadership.

## PROJECTS

### Movie Watchlist Backend API

- Designed and deployed a production-ready RESTful backend API enabling users to manage personalized movie watchlists.
- Implemented JWT-based authentication and authorization, ensuring secure user access and data isolation.
- Built scalable CRUD endpoints using Node.js and Express, following RESTful API best practices.
- Modeled relational data using PostgreSQL and Prisma ORM, including schema design, migrations, and optimized queries.
- Implemented centralized error handling, request validation, and environment-based configuration for deployment.

### Software Engineering Capstone Project – Thea's Pantry Backend (In Progress)

- Developing backend services for Worcester State University's Thea's Pantry, a campus food assistance program serving students.
- Designing and implementing RESTful API endpoints to support pantry operations and data management.
- Modeling and managing data using MongoDB, focusing on scalable and flexible schema design.
- Collaborating with a capstone team and stakeholders to translate functional requirements into secure, maintainable backend logic.
- Applying software engineering best practices including modular architecture, version control, and iterative development.

## LEADERSHIP EXPERIENCES

### Student Government Treasurer

Worcester, MA

*Worcester State University*

08/2025-Present

- Managing the annual budget and implementing financial tracking systems to ensure accurate fund allocation, transparency and operational efficiency for student organizations and campus events.

### Presidential Student Ambassador

Worcester, MA

*Worcester State University*

05/2025-Present

- Representing Worcester State University at official events and collaborating with faculty to engage prospective students, strengthen outreach, and promote campus culture and retention initiatives.