

RICK DJOUWE

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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-Present

- 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.