

# ZACHARY A. PATAKY

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## EDUCATION

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### Canisius College

Buffalo, NY

*Bachelor of Science in Computer Science*

May 2022

- Minor: Leadership
- Cumulative GPA: 3.98/4.00
- Activities: FUSION Gaming Society, Canisius College Anime Club, & Computer Science Society
- Honors & Awards:
  - Dean's List: Fall 2018
  - Dean's List with Distinction: Spring 2019 - Spring 2022
  - Computer Science Excellence in Academics Award: May 2022
- Course Highlights:
  - Software Engineering, Operating System Design and Distributed Computing, Information Organization and Processing, Web Development, Cybersecurity Principles
- Major Projects:
  - Created a distributed information processing and querying system capable of handling large quantities of data by leveraging the MPI library; developed in C++
  - Operated as Project Manager and programmer for a semester-long project creating a video game; developed in Java using the LibGDX library
  - Produced a personal resume website; developed in HTML, CSS, Javascript, and PHP

## WORK EXPERIENCE

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### Merchants Insurance Group

Buffalo, NY

*Full-Stack Developer*

May 2023 - Present

- Automated a form migration process (DOT → PDF) using .NET Core, Python, and Foxit PDF SDK for Windows to obtain state compliance, sparing the company from legal fines and months of labor
- Created an application that automates the submission of legal matter data to the Legal-X platform via SOAP APIs, saving the company costs in manual submission and technology subscription fees
- Engineered an application using .NET Framework/Core Web APIs, Ocelot API Gateway, and RabbitMQ to automate insurance policy data submissions, using a SAGA Orchestration microservice architecture
- Designed an internal portal for developers to view API health check statuses and application logs
- Developed and maintained several other company-wide portals using .NET Web APIs, Angular UIs, Microsoft SQL Server, and other (when necessary) tools
- Authored comprehensive documentation (architectural diagrams, sequence diagrams, API manuals, user manuals, etc.) and testing protocols across applications
- Collaborated closely in a team environment, conducting code reviews, engaging in peer development, and even mentoring two interns during the summer of 2024
- Volunteered on behalf of my company to participate in the 2024 Tech Buffalo Community Tech Design Challenge

### CYBRA Corporation

West Seneca, NY

*Junior Software Engineer*

July 2022 - March 2023

- Participated as an active component of an Agile development team, often collaborating with other developers
- Debugged current and legacy software, sometimes on client-specific copies of the application
- Contributed to the development of an upcoming web-based product using the Angular / Spring Boot stack
- Instrumental in designing and implementing a new UI scheme in our *MarkMagic Lite* application

### Canisius College, Quantitative Sciences Department

Buffalo, NY

*Department Tutor and Teacher's Assistant*

February 2021 - May 2022

- Assisted students with understanding class materials in face-to-face and online mediums
- Managed the Computer Science department's tutoring program by creating the tutoring schedule and operating as a source of support and assistance for emerging issues
- Represented the Computer Science department as a student panelist
- *Cybersecurity Principles* (CYB 500) | Spring 2022
  - Supported laboratory sessions with class-wide and one-on-one assistance

- Directed the class through laboratory assignments, including the *Social Engineering Toolkit*, *Steganography*, *Password Cracking*, *Wireshark*, and *Heartbleed Attack* projects
- Information Organization and Processing* (CSC 310) | Spring 2022
  - Managed a group of three students in a semester-long MySQL database project as their Project Lead
- Distributed Computing and Operating System Design* (CSC 330) | Fall 2021
  - Graded exams using a D2L rubric system, returning with feedback for improved resubmissions
- Large-Scale Programming* (CSC 213) | Fall 2021
  - Created and graded class materials, including the first exam, homework assignments, and lecture material
  - Designed lectures and presented on Java, Object-Oriented Programming, and Data Structures
- Automata and Algorithms* (CSC 281) | Spring 2021
  - Graded homework and laboratory assignments using a D2L rubric system, returning them with hints and concerns for improved resubmissions

## **Buffalo Computer Graphics**

**Blasdell, NY**

*Automated Testing Intern*

May 2021 - August 2021, January 2022

- Created and executed automated tests for the DisasterLAN program using Robot Framework
- Modified existing documents in Microsoft Word to conform to and meet ISO requirements
- Wrote technical documentation for an in-house browser extension tool
- Developed a tool in Robot Framework to generalize our testing object library

## **Canisius College, New Griff Orientation**

**Buffalo, NY**

*Lead Orientation Leader*

June 2020 - August 2020

- Served as a leader of academic and campus information for incoming first-year students and orientation leaders
- Conducted meetings and presentations for transfer students and Computer Science major students
- Created content weekly for the New Student Orientation Instagram account
- Composed sections for the Orientation Leader Manual, including a guide on how to operate classroom computer equipment, NSO contact sheets, and campus resources
- Directed two New Student Orientation videos, including a welcome video for the organization's Instagram page and a tutorial video for online resources
- Designed and executed a campus scavenger hunt that operated beyond expectations
- Assisted a local party event company in cleaning up the campus

## **Canisius College, New Griff Orientation**

**Buffalo, NY**

*Orientation Leader*

August 2019

- Assisted New Griff Orientation in welcoming Canisius College's class of 2023
- Collaborated with a partner to direct a student group through social and learning opportunities

## **Consumer's Beverages**

**Orchard Park, NY**

*Store Clerk*

May 2019 - July 2019

- Processed cash and credit transactions, tendering correct change to patrons
- Stocked shelves and ice bins, calculated returnable containers, and tapped kegs to the satisfaction of customers and at the standards set by Consumer's Beverages
- Resolved customer concerns positively and professionally to ensure recurring business
- Maintained a clean environment for patrons and fellow employees

## **SPECIAL SKILLS / PROFICIENCIES**

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|------------------|---------------------------|----------------------------|
| • Angular        | • SOAP / REST Web APIs    | • Automated / Unit Testing |
| • Bootstrap      | • Entity Framework / Core | • Software Documentation   |
| • Material       | • NHibernate              | • Microsoft Office         |
| • PrimeNG        | • Ocelot API Gateway      | • Leadership               |
| • JavaScript     | • RabbitMQ                | • Teamwork                 |
| • TypeScript     | • Python                  | • Mentoring                |
| • .NET Framework | • Microsoft SQL Server    | • Public Speaking          |
| • .NET Core      | • Version Control         |                            |