

# Ri Hang (Tony) Chen

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## Education

Binghamton University **B.Sc : Computer Science | Junior | GPA: 3.45**

Expected 2019

- Data Structures and Algorithms (In-Progress) | Object-Oriented Programming | Architecture and Programming | Machine Organization | Number Systems | Discrete Mathematics | Linear Algebra

## Skills

**Languages:** Java | JavaScript | HTML/CSS | C | SQL | basic Python | basic Swift | MIPS Assembly

**Technologies:** Node.js | MongoDB | MySQL | Git | Bootstrap | Microsoft Office | Adobe Photoshop

## Professional Experience

Back-end Developer Intern **Vizalytics Technology Inc.**

June 2017 - August 2017

- Contributed to the full-stack development process by creating multiple algorithms in Java that are ran continuously to gather and format data into MongoDB databases for big data and front-end visualization
- Collaborated with the data analyst and UX design interns, and the technology team to create cloud applications and deliverables for Transport for NSW to improve transit and Wonderful Copenhagen to improve customer experience

Office Assistant **Binghamton University Chemistry Department**

September 2016 - May 2017

- Generated multiple mailing lists and merges of chemistry departments across 100 other universities to spread awareness about the department and created label merges to increase sending efficiency

IT Coding **Bowne House Historical Society**

June 2016 - August 2016

- Designed a brand-new website for the museum using WordPress software, and self-taught HTML/CSS to update their website and increase traffic
- Created graphics such as diagrams and graphs using Adobe Photoshop to highlight information and make webpages appealing to viewers

## Projects

Transit Data Tool **GTFS Data Stream**

August 2017

- Developed a multi-threaded Java algorithm that reads from multiple transit open data APIs for file updates
- Converts ZIP and CSV file data into Document formats to be inserted into databases in MongoDB
- Processed over 3 million files into GeoJSON geometries of vehicle transit routes using the MongoDB Java Driver

Traffic Hazard Alerts **Affected Transit Real-time**

July 2017

- Wrote a continuously ran multi-threaded Java program that connects multiple real-time MongoDB databases and performs geospatial queries to warn passengers if their vehicle is near traffic hazards that may delay their commute

Dice Game **Cosmic Wimpout**

May 2016

- Recreated the dice game in Java implementing multiple object-oriented programming concepts including recursion, interfaces, abstract classes, exception-handling, polymorphism, inheritance, arrays, and loops

## Leadership Experience

Regulatory Compliance Project Manager **Ernst & Young Trajectory Program**

January 2017 - May 2017

- Lead weekly calls with Ernst & Young professionals by coordinating questions and organizing discussion to ensure team is well prepared for their assignments
- Responsible for submitting weekly deliverables and maintaining the consistency and quality of work of products to progress on workflow timeline without interruptions

Events Coordinator / Freshman Representative **Vietnamese Student Association**

October 2015 - January 2017

- Promoted the organization by creating and handing out fliers, and advertising different events on social media platforms such as Facebook and Instagram to increase club publicity