

Ri Hang (Tony)Chen

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Education

Binghamton University **B.Sc : Computer Science | Senior | GPA: 3.40/4.00**

Graduating May 2019

- Data Structures | Algorithms | Operating Systems | Design Patterns | Networks | Automata Theory

Skills

Languages: Java | C++ | C | JavaScript | HTML/CSS | SQL | basic Node.js | basic React | basic Python

Technologies: Spring Framework | Maven | MongoDB | JUnit | Mockito | Git | Atlassian | WebSphere | SonarQube

Professional Experience

Software Engineering Intern **Citigroup**

June 2018 - August 2018

- Designed and developed a RESTful API middleware service using Java and Spring Boot MVC, tested with JUnit using Mockito and integrated with SonarQube, built with Maven, and deployed in WebSphere server to leverage a legacy compliance system in order to reduce costs and improve client experience
- Led and scheduled meetings with the front-end team and back-end legacy system team in order to get all services to meet business requirements and ensure all teams are aware of each other's pending tasks
- Ensured code quality by adhering to hybrid Agile and Waterfall software development guidelines with daily code commits and reviews, weekly demonstrations, code refactoring for more modularity, and by creating API documentation

Back-end Developer Intern **Vizalytics Technology**

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 data analysts, UX design interns, and the technology team to create cloud applications and deliverables for NSW Transport to improve transit and Wonderful Copenhagen to improve customer experience

IT Coding **Bowne House Historical Society**

June 2016 - August 2016

- Designed a brand-new website for the museum using WordPress software, self-taught HTML/CSS, and Photoshop graphics to update their website and increase traffic

Projects

Unix File System **Operating Systems 2018**

- Created a C++ application to generate a CRUD unix-style file system using hexadecimal to represent data
- Utilizes super blocks, inode pointers, inode maps, and memory maps to keep track of data blocks and free memory

GTFS Data Stream **Vizalytics 2017**

- Developed a multi-threaded Java application that periodically consumes 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

Affected Transit Real-time **Vizalytics 2017**

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

Facebook Lite **Data Structures 2017**

- Created a modular C++ program that takes commands to login, create, and delete users and posts
- Utilizes nested linked list containers to store data and properly manages memory on the heap to prevent leaks

Leadership Experience

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

January 2017 - May 2017

- Facilitated weekly calls with EY professionals by coordinating questions and organizing discussion and responsible for submitting weekly deliverables to progress on workflow timeline