Jack MacDonald

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EDUCATION AND ACTIVITIES

- Master of Computer Science (Data Science Focus)   Graduating May 2021
- North Carolina State University
- **GPA: 4.0**
- Vice President, ACM Student Chapter
- Computer Science Department Ambassador

EXPERIENCE

Software Engineering Intern   Raleigh, NC

Prometheus Group   September 2019-Present

- Developed features for the Application Configuration Management tool with React.js and Redux
- Participated in weekly scrum meetings and completed user stories in Agile sprints

Software Development Intern   Charlotte, NC

Wells Fargo Securities   Summer 2019

- Built a scalable web app with React.js and Spring to modify an in-memory Oracle Coherence Cache
- Designed and implemented a process to support editing of hundreds of data types using reflection in Java
- Deployed app in a production environment
- Adapted to dynamically changing requirements from stakeholders

Undergraduate Research Assistant   Raleigh, NC

North Carolina State University with Dr. Vincent Freeh   Spring 2019

- Built an athlete management system with Django and Angular to monitor fitness data and provide analytics
- Organized Agile sprints with team members to develop and test features

Test Automation Intern   Raleigh, NC

Sunbird Software   Fall 2018

- Automated Ruby on Rails web app testing using Capybara and Selenium
- Set up and maintained continuous integration through Jenkins
- Collaborated with developers to write comprehensive automated test cases

TECHNICAL SKILLS

- Proficient: React, Java, C, Selenium, SQL, Django, HTML, CSS, Spring, Bootstrap
- Intermediate: Redux, Python, Ruby, Assembly, Jenkins, Cucumber, MySQL, PostgreSQL, Maven

PROJECTS

- *iTrust:* A Java web application developed with a team in Software Engineering. It allows healthcare providers to share essential patient information and view aggregate patient data.
- *Ambassador Portal:* An in-progress Django and React web application that manages Computer Science Ambassador event sign up. JWT is used for authentication and PostgreSQL is the database.