

Justin Rhodes

rhodesju21@gmail.com | 973-864-7831 | Sparta, NJ 07871

LinkedIn: linkedin.com/in/justinr14 | **Website:** justingrhodes.com | **GitHub:** github.com/JustinRhodes14

EDUCATION

Rutgers University - New Brunswick, NJ

GPA: 3.60

Bachelor of Science, Computer Science, Minor in Mathematics

Sept. 2018 - May 2022

Coursework: Data Structures & Algorithms, Computer Architecture, Systems Programming, Computer Algorithms, Data Management, Internet Technology, Discrete Math, Operating Systems, Graph Theory, Software Methodology

WORK EXPERIENCE

ADP - Automatic Data Processing

Roseland, NJ

Application Developer Intern

June 2021 - August 2021

- Built an API to query 1000+ internal clusters and databases usage metrics regarding storage, memory, and CPU
- Analyzed usage trends for storage to predict when a given cluster would run out of space with 90% accuracy
- Predicted expected growth over 1+ years to allow ADP to budget space upgrades for each fiscal year
- Monitored CPU and memory usage to notify admins when usage was reaching critical capacity
- Dockerized API and created a Jenkins pipeline to host the service on a Kubernetes cluster

Rutgers Computer Science Department and Learning Centers

New Brunswick, NJ

Intro to Computer Science Teaching Assistant

Sept 2019 - May 2021

- Lead and manage weekly recitations and study groups for introductory computer science courses
- Create lesson plans and learning goals pertaining to different types of learners
- Facilitate an understanding and appreciation for the fundamentals of computer science
- Increased productivity of department by answering students questions on class forum
- Lead exam reviews for students improving exam averages by 10%, encouraging further learning

Rutgers Office of Information Technology

New Brunswick, NJ

Lab Supervisor - Cook Campus Labs

January 2019 - Present

- Manage 5 lab locations and 80+ employees on Cook/Douglass campus at Rutgers University
- Work with employees each semester to build schedules that accommodate their college schedules
- Conduct interviews for prospective hires and handle onboarding for new hires
- Updated staff and wiki websites using HTML and CSS by designing a more organized layout, increasing efficiency of employees
- Overhauled departments ticketing service by assisting transfer over to ServiceNow platform

PROJECTS

Stockly - Discord Server Bot

- Built an informative chat bot allowing users to request news, pricing, and graphs relevant to a company's stock
- Plot data using Bokeh to create candlestick, quarterly earnings, and analyst recommendation charts upon user request in chat
- Improved user experience through rigorous testing and debugging to ensure all errors are handled properly, providing an informative response, and ensuring 24/7 uptime
- Developed with Python, Discord bot API, Finnhub Stock API, Bokeh, and Pandas

Version Control Server

- Implemented a version control system in C akin to GitHub
- Collaborated with another student to debug, code, and optimize client and server interactions
- Allows 20+ client connections through multithreading and socket recycling
- Optimized performance and reliability through synchronization of threads, avoiding race conditions and deadlocks with mutexes

National Park Information Kiosk

- React website where users can search for any United States national park to learn more about the area
- Designed layout with user experience in mind, making errors and instructions clear and coherent
- Developed using National Park API for Capital One's 2019 MindSumo challenge within two weeks

SKILLS

Programming Languages: Java, Python, SQL, C, JavaScript, Swift, HTML, CSS, Assembly

Technologies & Services: React, Firebase, Linux OS, macOS, Windows 7/8/10 OS, Git, Docker, Kubernetes, Jenkins, Android Studio, SceneBuilder

Skills and Concepts: Object-Oriented Programming, Project Management, Web Development, Troubleshooting, Data Structures, Algorithms, Dynamic Programming, Debugging, Software Design, Networking, Databases, Operating Systems