

Rong Chen

rongc@bu.edu | linkedin.com/in/rong | github.com/rongc0723 | rongc0723.github.io/react-portfolio/

EDUCATION

Boston University

Expected December 2024

Bachelor of Arts in Computer Science

GPA:3.85/4.00

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Distributed Systems, Database Systems, Intro to Artificial Intelligence, Object-Oriented Programming, App Development in C#

EXPERIENCES

Spectrum

May 2024 – Present

Platform Engineer Intern

Denver, CO

- Optimized **GitLab CI/CD pipelines** by overhauling repository architecture and configuring CI/CD **YAML** files, achieving up to **10x** increase in pipeline efficiency.
- Deployed **Apache Airflow** on **Amazon Web Services** for **60+** data scientists to use by utilizing **Terraform** to configure and maintain necessary services on **AWS** (IAM, VPC, S3, etc.).
- Implemented **dynamic DAG generation** in **Python** enabling data scientists to declare and define data engineering workflows from JSON or YAML files.

BostonHacks

Feb 2023 – Present

Front-End Developer / Organizer

Boston, MA

- Spearheaded the development of BostonHacks' website using **React** to manage and monitor **300+** participants.
- Leveraged **React component lifecycle** principles to reduce unnecessary rendering of components by **60%**.

Quantly

Sep 2023 – August 2024

Lead Technical Developer

Boston, MA

- Launched an online learning platform with secure **remote code execution** sandboxes for over **20** users to practice and learn financial concepts and programming questions.
- Improved **SEO** and initial page load time by **2** seconds with **Next.js server-side rendering techniques**.

Amica Mutual Insurance Company

May 2023 – Aug 2023

Software Quality Assurance Engineer Intern

Lincoln, RI

- Developed automated integration tests with **Selenium** and **TestNG**, reducing **5** hours of manual testing weekly.
- Conducted rigorous **root cause analysis** to identify and debug **20+** failed tests weekly, ensuring software quality.

PERSONAL PROJECTS

MapReduce & RAFT | Golang

- Reverse engineered and implemented the **RAFT Consensus Algorithm** in **go** to simulate **fault tolerance** of replicating data in real world distributed systems.
- Recreated the **MapReduce programming model** in **go** capable of altering thousands of megabytes of data.

Spot-Me | React, ASP.NET Core, MongoDB, Google Maps/Calendar API, Exercise DB

- Innovated a social media app designed to promote physical health and discover local gym communities.
- Constructed **RESTful APIs** to allow users to schedule workouts and compete with fellow weight lifters.

Sfoodify | React, Express.js, Firebase, Spotify API, Spoonacular API

- Developed a **full-stack web application** enabling users to explore and save new cuisine experiences.
- Interfaced real-time data from third party API's to provide users with **5+** personalized playlists and **20+** recipes.

Tetris AI Bot | Java

- Utilized **reinforcement learning with neural network** and the **Q-learning algorithm** to design and train a bot to consistently score over **10,000** points on Tetris.

TECHNICAL SKILLS

Programming: Python, Java, JavaScript, TypeScript, Golang, C#, Scala, HTML/CSS, YAML, SQL, REST APIs

Frameworks & Databases: React.js, Node.js, Express.js, Next.js, Django, MongoDB, MySQL, PostgreSQL, NoSQL

Tools: Git, AWS, GitHub, Terraform, GitLab, Docker, Kubernetes, Jira, Postman, Prisma, Linux, Windows, macOS