

# Rong Chen

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## EDUCATION

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### Boston University

Expected May 2025

*Bachelor of Arts in Computer Science*

*GPA: 3.85/4.00*

**Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Distributed Systems, Database Systems, Object-Oriented Programming, Full Stack Development, Machine Learning for Business Analytics

## EXPERIENCES

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### Spectrum

May 2024 – Present

*Platform Engineer Intern (MLOps)*

*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 by utilizing **Terraform** to configure and maintain necessary services on **AWS** (IAM, VPC, S3, etc.).
- Implemented **dynamic DAG generation** in **Python** for **Apache Airflow**, enabling data scientists to easily declare and schedule data workflows with **EMR** through **JSON** or **YAML** configuration files.

### BostonHacks

Feb 2023 – Present

*Front-End Developer / Organizer*

*Boston, MA*

- Designed and optimized **RESTful APIs**, creating endpoints to handle application submissions, approvals, rejections, and status tracking, improving workflow efficiency and user accessibility for **300+** participants.
- Leveraged **React component lifecycle** principles to reduce unnecessary rendering of components by **60%**.

### Quantly

Sep 2023 – Aug 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.
- Established type-safe APIs using **trRPC**, streamlining backend development with enhanced type inference and reducing runtime errors.
- 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

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### 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 processing hundreds of gigabytes of data.

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

- Innovated a social media web app to promote physical health and discover local gym communities.
- Constructed the application using the **MVC** architecture to ensure scalable and maintainable code, separating business logic from user interface components.

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

- Developed a decoupled **full-stack web application** enabling users to explore and save new cuisine experiences.
- Integrated **RESTful APIs** to interface with third-party services, providing users with **5+** personalized playlists and **20+** tailored recipes, enhancing user engagement and personalization.

## TECHNICAL SKILLS

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**Programming:** Python, JavaScript, TypeScript, Java, Golang, C#, HTML/CSS, Bash, YAML, SQL

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

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