

# Chenghao Lin

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## Education

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**Rutgers University** B.S. Computer Science  
Minor in Economics

New Brunswick, NJ  
Aug. 2017- May 2021

### Relevant Coursework

- Software Methodology
- Principles of Programming Languages
- Data Science
- Information & Database Management
- Internet Technology
- Design and Analysis of Computer Algorithms

## Projects

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### Payroll Processing System

Spring 2021

- Created a Java program that allows users to handle aspects of payroll processing for employees with a JavaFX UI
- Designed Unit tests for all classes using JUnit
- Used Object Oriented programming concepts including inheritance, polymorphism, and encapsulation

### Train Booking Database

Fall 2020

- Implemented a train booking system where users can query specific train schedules and book trips, customer reps can answer user questions, and admins can edit schedules and produce sales reports
- Developed the app with a JavaScript & HTML UI, Java backend and JDBC connection to MySQL database
- Architected entity relationship diagrams and relational schemas for the database
- Hosted all parts of the project on EC2 instances in AWS

### Where's the File

Fall 2020

- Created a version control system in C that functions similar to Git
- Designed a multithreaded server that allowed 20+ clients to connect simultaneously and reused threads to allow future connections to the server
- Utilized mutexes to prevent deadlocks, optimized performance through thread synchronization

### Personal Website

- Designed a responsive single page portfolio website showcasing my skills and projects, used React/JSX, and Sass CSS
- Visitors can navigate the page using a navbar and contact me via built in form submission.

## Experience

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### AT&T Summer Learning Academy

Summer 2020

- Developed professional skills through a series of online workshops
- Attended live events from professionals in their respective fields
- Gained exposure to machine learning, artificial intelligence, and 5G networks

## Leadership

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### League of Legends Division 1 Team

Captain

New Brunswick, NJ  
Sep. 2017 - May 2020

- Assisted in the growth & development of new players to communicate effectively
- Mediated conversations between teammates and staff to increase team efficiency

## Skills

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- Languages: Java, Python, C, R, SQL, JavaScript, XML, OCaml, Prolog, HTML/CSS
- Platforms/frameworks/tools: Git, AWS, Android Studio, and JavaFX
- Interests: Web Development, Data Science, Databases, League of Legends, Piano