

Renke Cui

renkecui.github.io

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Engineering, Minor in Business Administration

Grad. May 2026

Relevant Coursework: Machine Learning & Pattern Recognition, Visual Sensing & Computation, Computer Systems, Algorithms & Data Structures, Object Oriented Design, Web Development, Android Application Development

TECHNICAL SKILLS

- Languages: Java, C/C++, C#, SQL, Kotlin, R, JavaScript, HTML/CSS, Python, MATLAB
- Frameworks: .NET, SQLite, MongoDB, React, Node.js, Bootstrap, Netlify, Numpy
- Other: Git, SVN, Android Studio, Visual Studio, RStudio, PyCharm, IntelliJ, Eclipse

EXPERIENCE

Software Development Engineering Co-op

June 2024 – December 2024

Veeco Instruments

Plainview, NY

- Updated a C# WinForms application by integrating SQLite, reducing field service process time by 50%
- Created software tests with EDATester to identify inefficiencies, leading to a 2× improvement in data collection
- Upgraded a VB.NET application with dynamic user controls, halving development time and enhancing scalability
- Developed a WinForm application using Registry and PowerShell scripting to resolve 30% of customer tool issues

Information Technology Intern

July 2022 – August 2022

Rendr Care

New York, NY

- Directed asset management and maintenance operations for 1,000+ units across 50+ sites
- Performed site surveys and analyzed space utilization to align infrastructure with medical specialty requirements
- Led site hardware and software upgrades across multiple sites to improve operational performance

PROJECTS

Slothethics | *Andorid Studio, Kotlin, RapidApi*

April 2025

- Built a workout tracking app using Kotlin, Jetpack Compose, and MVVM to plan and monitor fitness routines
- Integrated ExerciseDB API to fetch exercise data, synced with Room database for offline access and persistency
- Collaborated in a 3-person team using Git for version control and GitHub Projects for agile sprint planning

NBA statistic web | *ReactJs, CSS, Node.js, MongoDB, Netlify*

December 2023

- Developed a fullstack webpage for basketball fans to analyze historical NBA data with API integration
- Designed a discussion-style blogging framework using React and Express.js, with a MongoDB database
- Led a small team in planning, designing, and developing a RESTFUL webpage under a 1 week sprint

Task Planner | *Java, JavaFX, IntelliJ, Git*

July 2023

- Led a team of 3 to design and develop a dynamic task management application using object-oriented design
- Implemented the Model-View-Controller (MVC) pattern to separate logic, interface, and data for maintainability.
- Enhanced user experience by designing dynamic themes and intuitive interfaces using JavaFX.

INTERESTS

Pi Delta Psi

January 2023 – Present

Internal Vice President, MGC Representative, Cultural Chair

New York, NY

- Facilitated the personal and professional development of brothers to foster a growth-oriented environment
- Organized events with Northeastern PAAC Council celebrating AAPI through food and culture showcases
- Spearheaded outreach, planning, and financial management for annual Fraternity banquet of 100 attendees

Other

- Basketball, Intervarsity Fellowship, Cooking, Board Games, Kayak, Hiking, Biking, Track & Field, JROTC