Renke Cui

renkecui.github.io/Portfolio/

917-615-9933 | cui.re@northeastern.edu | www.linkedin.com/in/renkecui/ | github.com/renkecui

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