

# CHENYU NIU

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## EDUCATION

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**University of Wisconsin-Madison**  
*B.S Computer Science, Mathematics Minor*

Madison, WI. (September 2020 - December 2022)  
*Cumulative GPA: 3.70*

**Edmonds College**  
*A.S Computer Science*

Seattle, WA. (September 2017 - June 2020)  
*Cumulative GPA: 3.82*

## TECHNICAL SKILLS

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|---------------------------|----------------------------------------------------------------------------------------------|
| <b>Programming Skills</b> | Java, C/C++, Python, JavaScript, HTML, CSS, Unix/Linux, GCP, L <sup>A</sup> T <sub>E</sub> X |
| <b>Software</b>           | Android Studio, IntelliJ IDEA, Visual Studio, VS Code, Vim, NetBeans                         |
| <b>Languages</b>          | Chinese (Mandarin), English                                                                  |
| <b>Course Highlight</b>   | Operating Systems, Computer Networks, Linear Optimization                                    |

## PROJECTS

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**Piggy Bank Android App** April 2020  
*Back-end & Front-end developer*

- Track user's income and expense with categories, display data in RecyclerView and a pie chart
- Cloud storage individual's user data using Google Firebase firestore
- Real-time synchronize between multiple devices
- Project Demo: <https://vimeo.com/491026787>

**Cryptocurrency and Stock Portfolio Website** December 2020  
*Back-end developer*

- A website that displays a user's trading record to others
- Implemented with Apache HTTP server, CSS, Java, and JavaScript

**Parallel Run-length encoding Data Compression Algorithm** November 2021

- Multi-threading implementation of RLE compression algorithm
- Scored top 20% performance in Operating System course performance test

## EXPERIENCE

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**iHealth Labs** June 2022 - September 2022  
*Software Developer Internship* San Francisco, CA.

- Study the software engineering process in the development of health labs software and help users to optimize the software.
- Using mainstream PaaS platforms, as well as commonly used SaaS services.

**Math Club** January 2019 - June 2020  
*President* Seattle, WA.

- Organizing events and creating the club website. Offering volunteering opportunities during Western Washington University Math Conference. Holding preparation section of AMATYC Student Math Competition as well as Integration Bee.

**One Hour Project Club** June 2018 - June 2020  
*English Tutor* Seattle, WA.

- Teach online English classes to students from rural areas of China