

# Yuxin (Nelly) Meng

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## EDUCATION

**University of Pennsylvania** – Philadelphia, PA

Master of Computer and Information Technology

Expected: May 2024

**Southeast University** – Nanjing, China

Bachelor of Engineering

Aug 2018 – Jun 2022

## TECHNICAL SKILLS

**Programming Language**

Python, Java, JavaScript, EJS, SQL, C, Bash, Motoko

**Web Development**

HTML/CSS, Bootstrap, React, Node, Express, jQuery, Passport, Spring

**Database/Cloud/Platform**

MongoDB, AWS, Heroku(PaaS), Jenkins(CI/CD), Git(Version Control)

**ML/Big Data**

Spark(Distributed Computing), PyTorch, MXNet, Scikit-learn, Crome; pandas

## EXPERIENCE

**Software Technologies Research Associate** | Developed **Productivity Tools**

Jul 2020 – Aug 2020

IT Center, Zhuhai Institute of Urban Planning & Design

Zhuhai, China

- Achieved 200% efficiency improvement: realized automatic simulation execution in Abaqus through script files in Python, decreasing average modeling time from over 30 minutes to 10 minutes.

**Research Assistant** | Deployed **Natural Language Processing**

Feb 2020 – Jun 2020

Southeast University

Nanjing, China

- Built a web crawler with Requests and BeautifulSoup4, analyzed scraped data with pandas.
- Conducted NLP sentiment analysis, visualized results with numpy in Python.

**Research Assistant** | Conducted **Data Analysis**

Aug 2019 – Dec 2019

Southeast University & Nanjing Real Estate Bureau

Nanjing, China

- Developed data cleaning tools with pandas in Python, executed data fitting, modeling and simulation with SPSS.

## PROJECTS

**WildSpot** | **Event-Driven Dynamic Web Application** (Full Stack)

Aug 2022 – Sep 2022

- Produced templated frontend views using EJS with Express.js and organized routes with Express middleware.
- Built REST APIs for web responses and database manipulation upon user requests including CRUD operations.
- Created session configuration with Express, set up authentication and authorization middleware with Passport.js.
- Developed cloud database with MongoDB and deployed the application with Heroku.

**MyDaily** | **Blog Website**

May 2022 – Jul 2022

- Developed frontend pages using JavaScript and Bootstrap, handled requests and responses with Node and Express.
- Implemented RESTful APIs and performed CRUD operations with Mongoose.

**DeFi** | **Decentralized Finance Application**

Mar 2022 – May 2022

- Developed the frontend using React.js and developed the backend with Motoko.
- Deployed the DApp to ICP(Dfinity) Blockchain for Hosting.

**Camtoon** | **App Promotion Site**

Dec 2021 – Jan 2022

- Designed and built the frontend pages with Bootstrap and jQuery.js.
- Handled user requests and responses with Node.js and Express.js and managed APIs with Postman.

**PalaceAdvent** | **Game**

Oct 2021 – Dec 2022

- Developed a graphic pixel game in Java independently, as a project of the course Data Structure.
- Generated random maps and player positions with input seeds and implemented the byow package to visualize.
- Built a persisting interface and monitored keyboard and mouse with StdDraw to complete interactions.
- Produced and encoded save files with HashCode, performed file I/O to write and load game data.

**Gitlet** | **Version Control System**

Oct 2021 – Nov 2021

- Implemented a version-control system in Java with TreeMaps, applying cryptographic hash function SHA-1.

## RELEVANT COURSES

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Data Structure	Inheritance and Data Structures in Java
Algorithms I&II	Introduction to Java and Object-Oriented Programming
Introduction to Computer Systems	Big Data Analytics (with Machine Learning)
Introduction to Software Development	C Programming

## INSTRUCTION EXPERIENCE

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<b>Coding Club Instructor</b>   Python	Oct 2022 – Dec 2022
Fife-Penn CS Academy	Philadelphia, PA
<b>Teaching Assistant</b>   C Programming	Aug 2019 – Dec 2019
Southeast University	Nanjing, China

## LEADERSHIP & TEAMWORK

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<b>Minister of Publicity Department</b>	Feb 2019 – May 2020
Zhishan Volunteer Organization of Southeast University	Nanjing, China
<ul style="list-style-type: none"><li>Organized termly recruitments, held orientations and trainings.</li><li>Built network by making and maintaining connections with other organizations and local museums.</li><li>Managed the social media account for publicity, designed uniforms and posters.</li></ul>	
<b>Administrative Secretary of Public Relations Department</b>	Sep 2018 – May 2019
Student Union of Civil Engineering School of Southeast University	Nanjing, China
<ul style="list-style-type: none"><li>Maintained internal and external relationships.</li><li>Planned and held activities including parties, night market fairs and alumni &amp; freshman meetings.</li><li>Raised funds and in-kind sponsorships by connecting with local organizations and shops.</li></ul>	

## VOLUNTEER

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<b>Docent</b>	Feb 2019 – May 2020
History Museum of Southeast University	Nanjing, China
<ul style="list-style-type: none"><li>Volunteered as a docent and attended to guests from companies and other universities in English and Mandarin.</li></ul>	
<b>Docent</b>	Sep 2018 – May 2019
Nanjing Jiangning Museum	Nanjing, China
<ul style="list-style-type: none"><li>Volunteered as a docent and helped hold open days for local pupils.</li></ul>	