

# Neha Pinni

[nehapinni1@gmail.com](mailto:nehapinni1@gmail.com) | Lake Zurich, IL | [www.linkedin.com/in/neha-pinni](https://www.linkedin.com/in/neha-pinni)

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## WORK EXPERIENCE

### Software Engineering Intern, Goldman Sachs

June 2024 - August 2024

-Worked on the credit risk applications team to implement a system that improved the run time of productionized ICR generation jobs by 37.5% through optimizing workflows, designing a system to batch and parallelize rule-based reviews, and developing an efficient logging mechanism

-Networked and collaborated across teams, participated in scrum meetings, led a final presentation for the global team

-Tech Stack: Java, Git, Aqua data studio, SLF4J library, Postman, Procmon, SQL

### SWE Intern, Code Day Labs

June 2023 - August 2023

-Designed and implemented a robust tagging system for the Firefiles file storage website that allows users to efficiently add, remove, and edit tags on files, improving their interaction with storage system APIs like AWS S3, Firebase, and Backblaze

-Tech Stack: Typescript, React, Amazon Web Services (AWS), Next.js, MySQL, Chakra UI, and Git to develop the tagging system and seamlessly integrate it into the existing infrastructure

-Actively participated in code reviews and collaborated with the development team to improve overall software quality

### Cybersecurity Research Intern, Loyola University

April 2021 - October 2021

-Conducted research alongside Dr. Eric Chan-Tin, lead for the center of cybersecurity, to determine the feasibility of private networks and decipher encrypted DNS lookups using machine learning

-Programmed algorithms to collect data and analyze DNS traffic to predict the domains of specific websites

-Presented project at Research Symposium and SPARK meetings, mentored junior intern, and shared progress via social media

-Tech Stack: Ubuntu, Linux, Wireshark, Python, Bash Script, VirtualBox, TCPDump

## EDUCATION

### University of Washington - Seattle

September 2022 - Expected June 2025

Major: Computer Science Minor: Business Administration Dean's List

Seattle WA

Relevant Coursework: Natural Language Processing, Distributed Systems, Algorithms, Artificial Intelligence, Machine Learning, Data Structures & Parallelism, Databases, Operating Systems, Security, Systems Programming, Software Design and Implementation, System and Software Tools, Hardware/Software Interface, Digital Design, Software Entrepreneurship, Linear Algebra, Multivariable Calculus

### Adlai E. Stevenson High School

2018 - 2022

Diploma with Honors GPA: 4.69

Lincolnshire IL

## PROJECTS

### Multilingual Character-Level Language Model

January 2024 - Present

-Developed a multilingual character-level language model using LSTM neural networks to predict the next most likely character in a sequence, leveraging the OSCAR corpus, a 1.1 TB multilingual dataset, to train the NLP model across 14 languages

-Boosted model performance through hyperparameter tuning, n-gram context integration, and model architecture refinement

-Tech Stack: Python, PyTorch, LSTM, Andrej Karpathy's char-rnn repository, Hugging Face

### Minority Map Website, Hackathon

October 2022

-Created the Minority Map website through DubHacks Hackathon, contributed to the project through backend development

-Collaborated with team to create various components of the website leveraging Javascript, HTML, and C++,

troubleshoot/debug, and add unique features to the website to ensure accessibility and efficiency for the target audience

## LEADERSHIP

### Chief Technology Officer, LiveUp

December 2023 - Present

-Founded a company that makes the process of subletting and subleasing more efficient for students

-Participated in the Dempsey Startup Competition and won \$2,500 for Best Marketplace Idea sponsored by Ebay

-Developed a demo site and currently developing an official website using this tech stack: React, javascript, CSS, AWS

### Outreach Committee Member, Women In Computing

November 2022 - Present

-Reaching out to organizations and high schools to promote the WiC mission of inspiring women to become involved in CS

-Organizing and leading coding workshops/STEM events for high school girls

-Collaborating with team to brainstorm engaging ideas and create materials to educate women in CS

### Lead Frontend Developer, Husky Coding Project

September 2023 - December 2024

-Led a team of 5 developers to create a meal finder website that allows people to efficiently find custom dining options and plan out meals based on their distance, budget, and cuisine preferences using HTML, CSS, React, Python, and SQL

## SKILLS

**Technical:** Java, C, C++, Typescript, HTML/CSS, Python, Swift, Linux, Cloud Computing, Javascript, MySQL, Git

**Certifications:** Machine Learning through Stanford University (**Present**), AWS (Amazon Web Services) Certified Cloud Practitioner (**August 2022**), Java Certification through HackerRank (**July 2022**), Artificial Intelligence Certification through IBM (**July 2021**), Python Programming Certification through University of Michigan (**August 2020**)

**Languages:** English (proficient), Telugu (native), Spanish (classroom)