

# Cheney Ni

Philadelphia PA Area

[cheneyni@pm.me](mailto:cheneyni@pm.me)

[in](#) cheneyni | [G](#) cheneyni-451 | [P](#) cheneyni.dev

## SOFTWARE ENGINEER

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I am a software engineer with a few years of web development experience in **TypeScript** and the **React** framework. I am familiar with **REST APIs**, **AWS** tools, such as **DynamoDB** and **Lambda**, and have worked with the microservice architecture.

## TECHNICAL SKILLS

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**Languages** : TypeScript, JavaScript, C++, Python, SQL, CSS

**Frameworks** : React

**Databases** : DynamoDB

**Software** : Git, GitHub, Linux

## EXPERIENCE

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### Software Development Engineer I

Amazon Web Services Inc.

Feb 2023 - April 2023

Remote – New York, NY

- Improved user experience of internship project after receiving feedback after deployment
- Enhanced development workflow by integrating code review status notifications into a Slack channel to increase visibility of new code reviews
- Removed expired data in **DynamoDB** table through scripting, resulting in a table size reduction of over 90%, thus lowering operational costs
- Collaborated with team members to expedite tasks to be ready for upcoming production deployment

### Software Development Engineer Intern

Amazon Web Services Inc.

May 2022 - August 2022

New York, NY

- Designed an implementation of a new digest email feature and reviewed it with entire team for feedback
- Implemented a reworked design of an entire webpage using **TypeScript** and **React** to enhance the customizability of the user experience
- Worked with an assortment of **AWS** tools, such as **Pinpoint** to send email and SMS notifications to customers, and **DynamoDB** to store user data

### Software Development Intern

Red Rover

June 2021 - August 2021

Exton, PA

- Collaborated with senior developers and another intern to fix bugs in web application using TypeScript React
- Communicated with the Sales team through daily Agile meetings to target and fix high priority bugs
- Wrote regression tests for the UI using **Cypress** testing framework

## EDUCATION

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### University of Michigan

Bachelor of Science in Computer Science, summa cum laude

Ann Arbor, MI

Sep 2019 - Dec 2022

### Online Sudoku Solver

*Personal Project*

- Implemented a browser extension in **JavaScript** to automatically solve online sudoku puzzles
- Designed with extensibility to allow adding parsers in the future for other sudoku websites
- Coded sudoku solver using a backtracking algorithm

### Thread Library

*School Project*

- Developed a user-level thread library in **C++** for the Linux OS in a team of 3 to learn about concurrency
- Implemented FIFO CPU scheduling to manage and switch between threads, and mutexes and conditional variables to allow thread synchronization
- Designed multithreaded programs to test the robustness of our implementation of the thread library

### Network File Server

*School Project*

- Developed a low-level network file server in a team with read-write support and communicating through TCP
- Designed with multithreading to allow concurrent operations from an arbitrary number of clients
- Engineered file server to be consistent regardless of erratic system crashes