

Chirath Illukpitiya

<https://cilluk.me> | cillukpi@u.rochester.edu | <https://www.linkedin.com/in/cillukpi>

EDUCATION

University of Rochester

Graduation Date: May 2025

Bachelor of Science, Computer Science

Rochester, NY

- **Teaching Assistant:** Object-Oriented Programming, Artificial Intelligence, Intermediate Korean
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, AR/VR, Advanced Algorithms, Web Development, Artificial Intelligence, Database Systems, Computer Organization, Mobile Development

EXPERIENCE

Galatea Associates

June 2024 - August 2024

Software Engineer Intern

Boston, MA

- Managed a microservice for a Wall Street firm's investment record system, handling 100,000+ daily transactions
- Created a multithreaded program using Python and Github's API to pull 300+ config YAML files in 5 seconds
- Built a Java query tool with Spring Boot to store YAML config values in Excel, saved clients 3 hours a week
- Used JUnit and Mockito to develop comprehensive unit tests and achieve 98% coverage for code contributions

University of Rochester Medical Center

May 2024 - Present

Artificial Intelligence Research Assistant

Rochester, NY

- Spearheading the development of an AI-driven plan to increase treatment accuracy for pancreatic cancer patients
- Developing a Python script using NumPy and PyRadiomics to classify tumors based on patient imaging data

Optum, UnitedHealth Group

June 2023 - August 2023

Software Engineer Intern

Basking Ridge, NJ

- Developed a microservice using Java, Spring, and Kafka to update provider information for 5,000+ hospitals
- Shipped a tracking API in the microservice to find missing provider information; reduced check times by 40%
- Executed deployment and integration tests using Docker, Jenkins, AWS, and Kubernetes for a successful launch

Optum, UnitedHealth Group

June 2022 - August 2022

Software Engineer Intern

Nashville, TN

- Built a REST API with Java, Spring Boot, and SQL to automate patient data retrieval for 1.3 million providers
- Integrated the API into an Angular questionnaire to prefill patient data; cut patient questioning time by 30%
- Led 5 interns as Scrum Master, finishing 4 agile sprints 20% ahead of schedule; reviewed code and held meetings

PROJECTS

AR Mixology App

February 2024 - April 2024

- Built an iOS app in Swift that uses AR technology as a visual guide to help users learn how to make cocktails
- Trained and integrated a YOLOv8 machine learning model in Python to detect cups and estimate volumes

Spotify Web Application with SeatGeek

November 2023 - January 2024

- Designed a full-stack website using React, JavaScript, HTML, and CSS to mirror Spotify's and SeatGeek's features
- Implemented a Node.js and Express backend to handle REST API interactions and OAuth user authentication

Crunchyroll Playback Speeder

October 2023 - November 2023

- Created a Chrome extension using HTML, CSS, and JavaScript to adjust Crunchyroll's video playback speed
- Utilized Chrome's extension API to manipulate playback DOM elements and store user preferences

SKILLS

- **Programming Languages:** Python, Java, C, SQL, Swift, JavaScript, HTML, CSS
- **Technologies:** Git, Angular, React, Node.js, Spring, Kafka, Kubernetes, Docker, AWS, Jenkins, MongoDB, JUnit
- **Concepts:** Agile Methodologies, Distributed Systems, APIs, Multithreading, CI/CD