




# YEE CHUEN TEOH

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[/YeeChuen:](#)   
[/veechuenteoh:](#)   
Python, Java: 

I am a Master of Computer Science student with experience in Python, Java, TypeScript, and SQL, and looking for a software engineer position in May 2024.

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## Work Experiences

### Health Software Engineer Intern, Apple

Sunnyvale, California  
May 2023 - Aug 2023

- In charge of design and implementing cutting-edge, forward-looking health software platform features that enhance user quality of experience.
- Conducted code review and developed customized tools to ensure high-quality software design and to streamline internal processes.
- Engaged in cross-functional collaborations and had the privilege of working under the mentorship of senior engineers on high-impact projects.

### Bioinformatics Research Assistant, Iowa State University

Ames, Iowa  
Dec 2022 - Present

- Programmed python scripts to scrape 40k records of protein data from web sources, providing an enhanced dataset for further analysis.
- Optimized Monte Carlo Tree Search technique to accurately model viral escape and predict mutation paths of viruses.

### Teaching Assistant, Iowa State University

Ames, Iowa  
Jan 2023 - May 2023

- Achievement: Teaching Excellence Award
  - Increased students' proficiency in Database Management System by 30% understanding by creating and running lab sessions.
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## Educations

### Master of Computer Science, Iowa State University

Ames, Iowa  
Anticipate May 2024

- Area of Focus: AI, Algorithms, and Data Sciences. CGPA: 4.0

### Bachelor of Architecture, Iowa State University

Ames, Iowa  
Aug 2016 - May 2021

- Graduated with Cum Laude title, Minor in Computer Science. CGPA: 3.56
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## Projects

### Sudocore, Web development

- Built with Python, Flask, HTML, and CSS.
- Achievement: Winners of SacHacks IV.
- Sudocore provides businesses and homeowners with the ability to aggregate all their electrical devices and appliances into a single application to control and receive data on the apps' devices.

### Othello AI, AI program

- Built with Python, Pytorch
- Othello AI is built using two reinforced learning techniques, namely Q-learning and SARSA to achieve an 80% winning ratio after 2,000,000 training episodes against a well defined heuristic agent across Othello research.

### BattleNightBox, Game Application

- Built with Node.js and React.
- BattleNightBox uses the concept of sockets and rooms to create a party-based video game web application where players can join a room using their own devices.

### 8 puzzle Solution, AI program

- Built with Python.
  - 8 puzzle Solution uses A star search with optimized heuristics that runs 90% faster and uses 70% less memory compared to well established Manhattan heuristics, hence able to provide a solution in less than 0.1 seconds.
  - set duration, rest duration, and workout performance during workouts.
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**Skills & Abilities:** Python, Java, SQL, JavaScript, TypeScript, HTML, CSS, Node.js, Flask, JSON, React, Pytorch.