Eric Chen

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EDUCATION

Stony Brook University – Stony Brook, NY   Graduation **May 2024**
B.S in Computer Science **GPA: 3.75/4.0**

TECHNICAL SKILLS

Languages: *Java, C#, Python, C, JavaScript, TypeScript, HTML, CSS*
Technologies: *Microsoft Azure, MongoDB, REST API, Git, Figma, Express, Node, React*

EXPERIENCE

Software Engineer, Microsoft – New York, New York   August 2024 – Present
SWE Intern, **Microsoft** – Redmond, Washington   May 2023 – August 2023
- Developed an AI copilot to help Technical Program Managers coordinate cross-team projects by leveraging *Azure Open AI* to power natural-language interactions via Microsoft Teams and interactions with *Azure DevOps* work items.
- Created *Semantic Kernel* plugins for interactions in Azure DevOps and Microsoft Teams, such as chats between it and the user, fetching and analyzing Azure work item data, and schedule reoccurring tasks.
- Identified a service breaking bug in a semantic kernel version and contributed to pinpointing its replication process and fix.
- Presented a talk about Semantic Kernel and its application in the copilot stack to 30+ engineers and managers.

Explore Intern, **Microsoft** – Redmond, Washington   May 2022 – August 2022
- Designed and developed an impactful internal tool for *chaos engineering* and expected to impact 100+ developers by significantly improving time to production.
- Utilized *Chaos Studio* and *C#* to simulate potential system vulnerabilities and failure points such as database failure and virtual machine failure.
- Authored a design document that outlined the functionality and implementation details of the chaos engineering tool to teach curious Microsoft engineers about *chaos engineering* and its impact.

PROJECTS

GitHub QA– Semantic Kernel / ChatGPT Plugin– C#   July 2023
- Developed and implemented a GitHub question and answer plugin that lets users pose inquiries related to GitHub repositories and receive informative responses.
- Enabled seamless interaction with both public and private GitHub repositories for over 1000+ developers worldwide.

Dynamic Memory – C library – C   April 2023
- Created a *C* application to mimic the underlying function of C's dynamic memory functions: malloc, calloc, free, and realloc.
- Implemented a quick free lists data structure to quickly fetch commonly used block sizes.
- Reduced CPU overhead by adding delayed splitting of free blocks and an explicit free list.

Play Lister – Web Application – JavaScript, React, MongoDB, Express   December 2022
- Developed a playlist and music sharing web application that allows users to create their own accounts, create playlists, and view other users' public playlists.
- Designed the backend server in *Lucid Chart* and implemented in Node and *Express*.
- Enhanced security and user experience by encrypting passwords.

KAYLE – A.I Discord Bot – Python, Discord.py, MongoDB   March 2021 – January 2022
- Designed an A.I discord bot used by 100+ discord users with the ability to talk to users, remember specific individuals, monitor servers, and even collect information and store them in a MongoDB.

iOS Shopper – iOS app – SwiftUI, MongoDB   January 2021
- Developed an iOS shopping application that simulates users with a shopping experience and allowing creation and deletion of accounts and add, remove, and checkout items listed in store.
- Integrated a *MongoDB* database for seamless synchronization of items and user accounts across iOS and Android devices.

ORGANIZATIONS

Stony Brook Women in Computer Science
Webmaster   May 2023 – May 2024
- Maintained the Stony Brook University Women in Computer Science website.
- Designed and developed Stony Brook University Women in Computer Science annual HopperHacks 2024 website.

Public Relations Secretary   June 2022 – May 2023
- Managed and advertised on social media platforms such as Facebook, Instagram, and Discord.
- Took creative and professional photos in events.