

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: C#, Python, Java, 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

- Shared Infra Team. Developed a library for the Azure Communication Service (200+ engineers) and reducing toil when developing and maintaining services. Consolidated hard to understand concepts and services into an easy to use library while keeping security in mind.
- AI Ops Team. Developed and maintained an AI tool to automatically run troubleshooting guides.

SWE Intern, Microsoft – Redmond, Washington

May 2023 – August 2023

- Developed an AI copilot to assist Technical Project Managers coordinate cross-team projects by leveraging Azure Open AI, Microsoft Teams, and Azure DevOps work items.
- Created custom Semantic Kernel plugins for interactions in Azure DevOps and Microsoft Teams, such as chat plugin, fetching and analyzing data plugin, and schedule tasks plugins.
- 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, managers, and executives.

Explore Intern, Microsoft – Redmond, Washington

May 2022 – August 2022

- Designed and developed an impactful internal tool for chaos engineering. Improved 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 an application to mimic the underlying function of C's dynamic memory functions: malloc, calloc, free, and realloc.
- Optimized memory allocation by implementing quick free lists for common sizes and reducing CPU overhead through delayed splitting 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, recall information, and monitor server chat. Built with MongoDB as main storage mechanism.

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 with MongoDB for seamless synchronization of items and user accounts across devices.

ORGANIZATIONS

Stony Brook Women in Computer Science (WICS)

Webmaster

May 2023 – May 2024

- Maintained the Stony Brook University WICS Science website.
- Designed and developed Stony Brook University WICS 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.

