

Kasey McFadden

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EDUCATION

- **Princeton University**

Bachelor of Engineering in Computer Science; In-major GPA: 3.63

Princeton, New Jersey

Graduated May 2022

EXPERIENCE

- **Microsoft**

Software Engineer

Aug 2022 – Present

- Joined the Experience and Devices org, working on the Office team to develop and enhance Office applications and services.
- Implemented automated performance testing using **k6** for a **GraphQL** federated gateway, identifying areas of improvement and ultimately achieving an 80% speed increase.
- Developed a tool to efficiently update tens of thousands of metadata files, streamlining the maintenance process and improving overall productivity.
- Contributed to enhancing the performance of support.microsoft.com, a high-traffic website with billions of annual users, ensuring optimal user experience and efficient support.

- **Capital One**

Software Engineer Intern

Summer 2021

- Developed a web application utilizing **React**, **Express**, **SQL**, **TypeScript** and integrated data tools such as Tableau and QuickSight, modernizing static sites and enabling streamlined business analytics for over 30,000 users across multiple teams.
- Utilized Capital One's learning resources to obtain Certified Secure Software Engineer (CSSE) and CSSE Pro certifications, investing 20+ hours in study and assessment during internship downtime.

- **Merck**

Software Engineer Intern

Summer 2020

- Developed a computer vision system using **Python**, **OpenCV**, **NumPy**, **FRCNN** and a mechanical disintegration apparatus, automating pill disintegration analysis and providing crucial data while eliminating manual analysis.
- Designed interactive visualization maps with **Python**, **Golang**, **D3.js** to monitor pharmaceutical product distribution, leveraging Merck's Blockchain API to combat fraud.

- **Venus Technology Ventures (acquired '21)**

Software Engineer Intern

Summer 2019

- Integrated Stanford CoreNLP pipeline into a fintech voice platform using **Go** to recognize natural language patterns and create custom user vocabulary, contributing to technical documentation for a patent application.
- Led app refactoring effort, integrating 10+ communication APIs, enhancing the UI with Sencha, improving authentication systems, and adding voice AI capabilities.

PROJECTS

- **Adaptive Replacement Cache:** Golang cache optimized to favor either recency or frequency, improving hit ratio.
- **TigerStudy:** Study group finder made for Princeton's McGraw Center for Teaching and Learning. Still maintained by the university.

SKILLS

- **Languages:** Python, C#, Java, C++, Go, TypeScript, SQL
- **Frameworks:** React, Express.js, Next.js, Node
- **Tools:** Jira, Azure, AWS, Docker, Kubernetes
- **Interests:** Rowing, marathons, mountaineering, optimism, DIY projects, comedy