Kasey McFadden

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EDUCATION

- **Princeton University**   Princeton, New Jersey
  Bachelor of Engineering in Computer Science; Departmental GPA: 3.63   *Expected May 2022*
    - ○ **McGraw Center**: Consulting students 5-10 hours/week to form individualized approaches to learning.
    - ○ **Men's Heavyweight Rowing**: Training 15 hours/week year-round as walk-on to highly competitive D-I team.
    - ○ **Outdoor Action**: Leading week-long wilderness backpacking orientation trips for groups of incoming students.

EXPERIENCE

- **Microsoft**   Seattle, WA
  Software Engineer   *Starting 2022*

- **Capital One**   McLean, VA
  Software Engineer Intern, Technology Internship Program (TIP)   *Summer 2021*
    - ○ **BI Data**: Created a central web app using React, Express, SQL, Javascript and integrated data tools including Tableau, QuickSight to produce business intelligence insights and modernize static sites, streamlining the business analytics production process and providing a central portal for over 30,000 users across various partner teams.
    - ○ **Certifications**: Leveraged Capital One's learning resources to acquire Certified Secure Software Engineer (CSSE) and CSSE Pro certifications during internship down time, dedicating 20+ additional hours for study/assessment.

- **Merck**   Branchburg, NJ
  Software Engineer Intern   *Summer 2020*
    - ○ **Disintegration Analysis**: Built a computer vision system using Python, OpenCV, NumPy, FRCNN, and a physical servo-based disintegration apparatus to automate the disintegration analysis process, identifying key disintegration metrics to produce important data and eliminate the need for manual analysis.

  Data Visualization Intern   *Summer 2019*
    - ○ **Dynamic Product Tracker**: Created interactive, dynamic visualization maps using Python, Golang, D3.js to track pharmaceutical product distribution by pulling data from Merck's Blockchain API in order to identify fraud.

- **Venus Technology Ventures**   Stamford, CT
  Full-Stack Development Intern at Fintech Startup (Acquired 2021)   *Jan. – Jul. 2019*
    - ○ **NLP**: Integrated Stanford's CoreNLP pipeline into fintech voice platform using Golang to identify natural language patterns and create custom user vocabulary, later contributing technical documents for patent application.
    - ○ **Platform Refactoring**: Guided app refactoring effort: integrating over 10 communications APIs, including Slack, Alexa, Teams, expanding UI with Sencha, improving authentication systems, adding voice AI capabilities.

- **Citi**   New York, NY
  D-I Finance Education & Mentorship Program   *Sep. 2018 – Apr. 2019*
    - ○ **Training**: Learned about financial markets and banking industry through monthly mentoring sessions with Citi professionals and quarterly financial education webinars as part of competitive finance mentorship program.

- **Vonage**   Holmdel, NJ
  Software Engineer Intern   *Summer 2018*
    - ○ **SMS Anonymity Client**: As project lead for intern team of 5, created SMS-based client using Python, Nexmo to generate phone number aliases to support safe and anonymous communication, pitched to judge panel of 10+ including CEO for Intern Innovation Challenge competition, voted 1st place winner.
    - ○ **Performance Monitoring**: Developed containerized performance monitoring solutions for over 10,000 client accounts within Enterprise team using Grafana, Kibana, Kubernetes, Docker.

  Software Developer Intern   *Summer 2017*
    - ○ **Chatbot**: Built reminder chatbot for independent project using Python, IBM Watson AI, Nexmo, Google Calendars, Gmail to send SMS and email reminders for upcoming events.

PROJECTS

- **Adaptive Replacement Cache**: Golang cache optimized to favor either recency or frequency, improving hit ratio.
- **Tiger-Study**: Study group matching service to enhance learning at Princeton and bring students together.