

Onsang Felicia Yau

ofyau17@gmail.com | 718-577-7558 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | *Work Authorization: U.S. citizen*

EDUCATION

University of Pennsylvania, Penn Engineering, Philadelphia, PA 08/2022 - **12/2024 (Expected)**
Master's in Computer and Information Technology GPA: 3.8/4.0

[Dean's Master's Scholar](#) | 2023 Grace Hopper Celebration Virtual Scholar | [AnitaB.org Membership](#) '23-24 | Advocacy Chair @ [Penn Lambda Grad](#) | LGBTQ+ committee @ [SEAS Wellness](#) | E-board @ Penn's Chinese Queer Women Group

Cornell University, College of Agriculture and Life Science, Ithaca, NY 08/2018 - 05/2022
BS in Animal Science (Digital Agriculture) Major GPA: 3.9/4.0; Overall GPA: 3.7/4.0, Cum Laude

TECHNICAL SKILLS

Programming Languages: Java • Python • C • JavaScript • C++ • R • SQL • Kotlin • x86 Assembly | **Full Stack Development:** Figma • REST API • Git • CSS • HTML • Bootstrap • Express • NodeJS • React • MongoDB • AWS S3 • Spark • CI/CD Pipeline
Mobile App: Android | **Systems:** MacOS • Linux • Multithreading | **Product Management:** Agile • Prototyping • UX

SELECTED WORKING EXPERIENCE

Cloud, Network, and Digital Service Engineering Graduate Intern, the MITRE Corporation 05/2023 – 08/2023

- Spearheaded the development of a web-based grant submission platform for US government officers, utilizing HTML5, CSS3, JavaScript, and AJAX on AWS, integrating a NoSQL database and RESTful API via Node.js and Express.js
- Managed the product lifecycle on GitHub, focusing on crafting user stories and optimizing user flows to enhance interface interaction and functionality
- Facilitated user testing and iterative feedback sessions, ensuring alignment with technical requirements and government stakeholder expectations, improving user engagement metrics by 30%

Software Quality Assurance Tester, eCornell, Ithaca, NY 03/2022 – 07/2022

- Enhanced eCornell's Machine Learning eLearning course by leading white-box testing, resolving 50+ issues, improving product quality by 15%, and implementing 10+ platform enhancements to boost student engagement

SELECTED INFORMATION TECHNOLOGY PROJECTS

Google Search Engine Clone Project 08/2023 – 01/2024

- Engineered an HTTP/HTTPS web server in Java for dynamic content serving and session management, deployed on Amazon EC2, with an in-memory and persistent key-value store and analytics engine
- Developed a distributed web crawler and indexer for a cloud-based search engine using PageRank algorithms, leveraging EMR, Apache Spark, and Kubernetes for enhanced processing and scalability

[SocialGround Web App](#) 09/2022 – 12/2022

- Led a 4-member team to develop a MERN stack social media application, focusing on UI/UX design (Figma, Bootstrap) and integrating 15 custom components
- Established 8 REST API endpoints and a MongoDB database, utilized AWS S3 for media storage, and applied Agile and Git for project management, improving product quality by 20% via extensive testing (Cypress)

SELECTED HACKATHONS

[Sam.io – Harvard Health System Innovation Lab Hackathon](#), Technical Project Manager 04/2024

1st Place at Mental Health Track @ Boston Hub, Won the 1st Round of Global Pitch, Pending Final Round Soon

- Led the development of Sam.io that utilizes empathetic AI agent to personalize patient care for mental health patients

[Carnation – Health Hackathon](#), Technical Product Manager & IOS App Designer 03/2024

- Spearheaded a team of 5 on the development of Carnation, an AI-driven iOS app to create accessible healthcare solutions for the LGBTQIA+ community by integrating personalized matching algorithms and ensuring HIPAA compliance

[Restz – FemmeHacks @ UPenn](#), Technical Product Manager & Full-stack Engineer Lead 02/2024

Most Innovative Hack Award

- Led a team of four to on the full-stack development and testing of "Restz", a one-click gender neutral bathroom finder web app; crafting a responsive frontend with HTML, CSS, and JavaScript, integrated Firebase NoSQL for real-time data handling, employed Leaflet for mapping, MapQuest API for routing, and deployed via Netlify and Google Cloud

[MeCoo – FemmeHacks @ UPenn](#), Technical Product Manager & Front-end Developer 02/2023

Most Innovative Hack Award

- Spearheaded a team of 4 to win the "Most Innovative Award" by developing a thermo-sensory bracelet for menopausal care, including coding the companion Android app in Java and XML using Android Studio