

# Kaitlin Wood

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## EDUCATION

### University of Houston — Honors College

August 2022 – December 2024

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 3.9

**Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Databases, Software Design, Data Science

## EXPERIENCE

### Software Engineer I

February 2025 – Present

Mastercard

St. Louis, MO

- Built accessible UI components with ARIA attributes and keyboard navigation, increasing usability score
- Implemented robust test coverage during JS to TSX migration, improving overall code coverage to **98%**
- Optimized CI/CD Jenkins pipeline, decreasing build times by 35% while automating deployment processes

### Teaching Assistant (Data Structures and Algorithms)

August 2023 – December 2024

University of Houston - College of NSM

Houston, TX

- Assist **450** students in understanding data structures, algorithms, and problem-solving, achieving **90%** pass rate
- Provide weekly office hours and review sessions for **50+** students, improving assignment completion rates by **15%**
- Increase student engagement by collaborating with the teaching team to design skill-specific problem sets

### Undergraduate Research Assistant

May 2023 – August 2023

HULA (Houston Ubiquitous Learning Algorithms) Lab

Houston, TX

- Developed **VR** surgical training environments, incorporating **eye-tracking** and PVT outcomes to measure fatigue
- Optimized **machine learning** algorithms by refining hyperparameters and data cleaning, improving speed by **7%**
- Reduced user fatigue by **15%** with environment modifications, extending VR training sessions by up to **45** minutes

## PROJECTS

### Glow | SwiftUI, XCode, Firestore, Firebase Auth, Firebase Storage, Git/GitHub

November 2024

- Created iOS app with **SwiftUI**, integrating **Firebase Firestore** for real-time data sync and offline functionality
- Implemented **Firebase Auth** with email and social sign-in options, reducing authentication errors by **45%**
- Developed **Firebase Storage** system with automatic image compression and caching, cutting load times by **65%**

### Dropawf | React.js, Node.js, HTML, CSS, MySQL, Azure, Git/GitHub

April 2024

- Led **5** developers to create and deploy a **full-stack** courier service web application, boosting operational efficiency
- Optimized queries and implemented multi-screen forms, reducing data retrieval time by **25%** and errors by **40%**
- Implemented **user authentication** for 5 user-roles using **JWT**, enhancing data protection and user access control

### Wordle | Python, Unittest, Coverage.py, Paver, Pygame, Jenkins, Subversion

March 2024

- Developed Wordle game with modular, reusable components, reducing code duplication and improving scalability
- Streamlined development with **Jenkins CI/CD**, boosting reliability and speeding up feature delivery by **10%**
- Integrated spell-check and word selection **API**, reducing manual errors by **40%**, streamlining workflow efficiency

### UPRR Asthma Hotspots | Python, Kelper.gl, Scikit-learn, PyTorch, TensorFlow, Git/GitHub

February 2024

- Performed EDA on **68,000+** records, identifying trends to guide predictive models and improve accuracy by **15%**
- Utilized **Kepler.gl** to visualize geospatial data, revealing correlations between asthma hot spots and UPRR lines
- Employed **TensorFlow** and **PyTorch** for data cleaning and model training, improving accuracy and data quality

## SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, C++, SQL, Kotlin, Scala, Erlang, Swift, HTML/CSS, R

**Libraries & Frameworks:** React.js, Node.js, Express.js, Next.js, TailwindCSS, Unittest, JUnit, Expo, SwiftUI

**Tools:** Git/GitHub, Azure, AWS, Jenkins, Maven, JaCoCo, Subversion, VSCode, IntelliJ, XCode, Firebase, MySQL

## LEADERSHIP

### Director of Marketing

April 2023 – April 2024

Computer Science Girls

University of Houston

- Spearheaded marketing through flyers and recruitment boosting membership by **25%** within the first two weeks
- Collaborated with partner organizations and industry professionals to host weekly professional development events
- Increased visibility and engagement by **200%** through events and digital platforms by rebranding the organization

### Webmaster

November 2022 – April 2023

Filipino Student Association

University of Houston

- Created a full-stack member portal that streamlined event operations by **25%**, supporting over **1,000** members
- Engineered secure **QR code** check-in system, eliminating manual point entry and decreasing event delays by **80%**
- Established **real-time notifications**, raising event attendance by **20%** and competition-eligible members by **40%**