

# KAITLIN WOOD

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## EDUCATION

<b>University of Houston — Honors College</b> Bachelor of Science in Computer Science, Minor in Mathematics <b>Relevant Coursework:</b> Data Structures & Algorithms, Operating Systems, Artificial Intelligence, Cloud Computing	August 2022 – December 2024 GPA: 3.9
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## EXPERIENCE

<b>Software Engineer I</b> Mastercard	February 2025 – Present St. Louis, MO
<b>Teaching Assistant (Data Structures and Algorithms)</b> University of Houston - College of NSM	August 2023 – December 2024 Houston, TX
<ul style="list-style-type: none"><li>Mentor 450+ students, improving average assignment scores by 15% through weekly review sessions</li><li>Author supplementary tutorials on complex topics including recursion and dynamic programming</li></ul>	
<b>Undergraduate Research Assistant</b> HULA (Houston Ubiquitous Learning Algorithms) Lab	May 2023 – August 2023 Houston, TX
<ul style="list-style-type: none"><li>Build a data augmentation pipeline (Python, OpenCV) for 3,000+ MRI scans, growing the dataset by 500%</li><li>Train a U-Net CNN for tumor segmentation, achieving a high-accuracy Dice Score of 0.92 on test data</li><li>Reduce model size by 75% and accelerated inference speed 4x using post-training quantization techniques</li></ul>	

## PROJECTS

<b>Momentum</b>   Go, Kafka, PostgreSQL, Docker, Kubernetes, AWS, Git/GitHub	August 2024
<ul style="list-style-type: none"><li>Engineer a high-throughput platform in Go to process real-time stock data using <b>Kafka</b> message queuing</li><li>Achieve <b>sub-100ms latency</b> for technical indicator calculations (RSI, MACD) on streaming financial data</li><li>Deploy containerized microservices to a Kubernetes cluster on AWS, ensuring high availability at scale</li></ul>	
<b>Glow</b>   SwiftUI, Cloud Firestore, Firebase Auth, Firebase Storage, Git/GitHub	November 2024
<ul style="list-style-type: none"><li>Architect a scalable iOS skincare app with SwiftUI and Firebase for real-time sync and offline support</li><li>Implement a secure multi-provider authentication flow with <b>Firebase Auth</b>, reducing login errors by 45%</li><li>Design an efficient image pipeline with <b>Firebase Storage</b> and caching, cutting load times by over 65%</li></ul>	
<b>Dropawf</b>   React.js, Node.js, Axios, MySQL, Azure, Docker, Git/GitHub	April 2024
<ul style="list-style-type: none"><li>Lead a 5-person team to design, build, and deploy a full-stack courier service app on Microsoft Azure</li><li>Optimize backend performance by refactoring <b>MySQL</b> queries which reduced data retrieval times by 25%</li><li>Engineer a secure role-based access control (RBAC) system for 5 distinct user types using <b>JWT</b></li></ul>	
<b>Wordle</b>   Python, Unittest, Pygame, Jenkins, Docker, Subversion	March 2024
<ul style="list-style-type: none"><li>Develop a scalable Wordle clone in <b>Python</b> using an <b>MVC</b> design pattern to ensure high code quality</li><li>Configure a <b>Jenkins CI/CD</b> pipeline to automate testing, containerization with <b>Docker</b>, and deployment</li><li>Reduce invalid user submissions by 40% by integrating a word validation <b>API</b> with robust error handling</li></ul>	

## SKILLS

<b>Proficient</b>	Python, JavaScript, TypeScript, Swift, C++, SQL, HTML/CSS, React.js, Node.js, TailwindCSS, Cypress
<b>Familiar</b>	Go, Java, Spring Boot, TensorFlow, PyTorch, Flask, Kotlin, Rust, Erlang, OCaml, Ruby, Scala, jQuery, GraphQL
<b>Tools</b>	Git/GitHub, Jenkins, Firebase, Postman, JWT, OAuth, Azure, AWS, Docker, Kubernetes, Figma, Dynatrace, Splunk

## LEADERSHIP & ACTIVITIES

<b>UX Designer &amp; Frontend Contributor</b> University of Houston - Computer Science Girls	May 2023 – May 2024 Houston, TX
<ul style="list-style-type: none"><li>Lead UI redesign in Figma for CS department portal, boosting design consistency by 80% with a component library</li><li>Implement the redesigned UI with a team of 4 developers using React.js, ensuring an accessible experience</li></ul>	
<b>Webmaster</b> Filipino Student Association	November 2022 – April 2023 University of Houston
<ul style="list-style-type: none"><li>Launch a full-stack member portal using React and Node.js for an organization of over 1,000 students</li><li>Integrate an events calendar with RSVP functionality, increasing member event attendance by over 25%</li></ul>	