

Jason Wang

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EDUCATION

University of Maryland, College Park

Expected May 2025

Bachelor of Science in Computer Science - Machine Learning Track, Minor in Statistics

GPA: 3.7

- **Honors Program:** Advanced Cybersecurity Experience for Students (ACES)
- **Relevant Coursework:** Algorithms, Data Science, Database Design, Mobile Development, Object-Oriented Programming I/II, Advanced Data Structures, Applied Cybersecurity, Machine Learning, Natural Language Processing, Linear Algebra

TECHNICAL SKILLS

Programming Languages: Java, TypeScript/Javascript, Python, Dart, C/C++, HTML/CSS, OCaml, Rust, Ruby, Bash

Technologies: Git, Jira, Unix, React, Node.js, Vue.js, Spring Boot, Kafka, Pytorch, Kubernetes, Flutter, Django, Flask, PostgreSQL

EXPERIENCE

University of Maryland

August 2024 – Present

Undergraduate Teaching Assistant

College Park, MD

- Assisted students in understanding **Dart** programming language and **Flutter** framework concepts for mobile app development on iOS and Android, including state management, widget composition, best UI/UX practices
- Guided students to develop a fully-fledged Pokemon Go like app complete with Google Maps API integration, live location streaming, active read/write to Redis, and offline data saves with local storage
- Graded assignments and held office hours for 170+ students to provide constructive feedback on students' projects to improve their code quality, readability, and efficiency

Walmart Global Tech

June 2024 – August 2024

Software Engineer Intern

Sunnyvale, CA

- Constructed and deployed a robust data pipeline using **Java Spring Boot** and **Kafka** to stream over 5000 shipment requests daily from Walmart vendors to affiliated truck carriers, ensuring accurate delivery of goods to distribution centers
- Designed and implemented a modular pipeline structure to improve readability and support independent business flows, greatly enhancing the pipeline's long-term scalability and maintainability
- Performed thorough end-to-end testing to validate pipeline integrity, ensuring accurate and reliable delivery of shipment requests to the intended carriers, along with achieving 95% unit test code coverage

Walmart Global Tech

May 2023 – August 2023

Software Engineer Intern

Sunnyvale, CA

- Engineered an event dashboard to visualize planned cloud provider outages affecting Walmart data centers, ensuring timely notifications to data center owners and maintaining service continuity for over 2.1 million employees
- Developed a robust API using **Java Spring Boot** to capture, validate, and store outage events from Walmart's cloud provider in an Azure database, and achieving 90% code coverage through unit testing
- Designed an intuitive frontend dashboard view using **Tableau** to elegantly display the captured data, incorporating advanced filtering options to modernize the existing user workflow

CoreTechs Consulting Inc.

May 2022 – Aug 2022

Software Engineer Intern

Kensington, MD

- Developed a full-stack web application to provide a charter boat booking management dashboard for marina clients, streamlining their business operations around the country
- Collaborated with marina staff to design an intuitive user interface for the scheduled trips panel and charter payment center, leveraging **Vue.js** and Quasar to enhance user experience
- Implemented **PostgreSQL** querying with **Python** and **Django** framework to automatically populate trip details for receipt emails sent to customers, boat captains, and marinas

PROJECTS

Research HoneyPot | Bash, Python, LXC

- Worked with a team of students to build and deploy Linux Containers (LXC) disguised as a medical database in order to attract cyber attackers and study their behavior in real time
- Integrated man-in-the-middle servers with containers to capture attacker activity, collecting over 69,807 session streams
- Developed data analysis scripts in Bash and Python to perform statistical operations, enabling the generalization of attacker tendencies and the categorization of behaviors
- Formulated hypotheses about attacker behavior, systematically testing these hypotheses, and drawing conclusions to better understand and predict cyber threats