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, Advanced Data Structures, Discrete Mathematics, Object-Oriented Programming I/II, 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, Github, Jira, Unix, React, Node.js, Vue.js, Spring Boot, Kafka, 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, including state management, widget composition, Google Maps API integration, and UI/UX best practices
- 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 efficiently stream over 5000 shipment requests daily from Walmart vendors to affiliated truck carriers, ensuring accurate delivery of goods to distribution centers
- Collaborated with product managers and engineers to gather comprehensive requirements for the pipeline, ensuring alignment with business objectives and technical feasibility
- 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 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 dynamic backend 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