

Jason Uranta

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EDUCATION

BROWN UNIVERSITY

BACHELOR OF SCIENCE, COMPUTER SCIENCE AND ECONOMICS

Courses taken: Data Structures and Algorithms, Introduction to Software Engineering, Computer Systems Fundamentals, Investments I, Honors Statistical Inference I, Mathematical Econometrics I, and Intermediate Macroeconomics.

GPA: 3.8

MAY 2026

HIGHLIGHTED PROJECTS AND EXPERIENCE

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

BADEN-WÜRTTEMBERG, DE

RESEARCH INTERN

MAY 2024 – AUGUST 2024

- Conducted research on the scarlet ibis's use of tactile foraging to draw behavioral conclusions for use by conservation efforts and recreation via bio-inspired robotics
- Trained and fine tuned deep learning models using CNNs for the software framework DeepLabCut and used markerless pose estimation to analyze videos resulting from deep learning.
- Analyzed data via machine learning models and biology research papers to mitigate bias and variance errors, and extract physical data

CONCURRENT AND DISTRIBUTED STORE

PROVIDENCE, RI

SERVER-SIDE STORAGE PROJECT

APRIL 2024 – MAY 2024

- Developed and implemented two types of key-value stores for efficient data storage and retrieval and gained proficiency in networking abstractions through client-server communication protocols.
- Designed key-value stores to handle concurrent client requests using synchronization primitives (mutexes) to manage concurrency issues. Implemented a sharding mechanism to distribute data across servers for scalable data distribution.
- Created a shard controller to manage shard assignments and a sharding-aware server to update and migrate shards dynamically. Built a sharding-aware client to direct requests to the appropriate servers.

CITADEL | CITADEL SECURITIES

PROVIDENCE, RI

CITADEL EXTERN

JUNE 2023 – AUGUST 2023

- Strengthened proficiency in Python, HTML, and CSS through hands-on projects involving asset management and trading.
- Built a dynamic website using Flask, demonstrating stock investment bundles for consumers with mock data stored via MongoDB, ensuring seamless retrieval and manipulation. Developed an understanding of Python containers.

HACK FOR LA

LOS ANGELES, CA

SOFTWARE ENGINEER INTERN

JUNE 2021 – AUGUST 2021

- Selected frontend issues that needed review and worked to improve those facets of the company website on their GitHub.
- Made alternate text ADA and WCAG 2.0 compliant by updating the alt attribute value for the Location Icon on the Credit page and fixed errors in code that caused a lack of uniformity amongst objects on the Communities of Practice web page.
- Implemented a directive to download Homebrew using an alternative method, saving up to 1.5 hours of onboarding time

INTERESTS AND INVOLVEMENTS

BROWN UNIVERSITY CLUBS

PROVIDENCE, RI

MENTOR AND MEMBER

AUGUST 2022 – PRESENT

- MOSAIC+ (Diversity-focused computer science club): Practiced and mastered essential topics data structures and algorithms, computer systems, and software design with peers. Attended professional development & networking events.
- Model UN: Attended the Harvard and Columbia National MUN conferences with an emphasis on innovations in AI, potential impacts on healthcare, and Japan during the Cold War. Chaired a GA committee in Brown's conference.

THRIVE SCHOLARS

PROVIDENCE, RI

THRIVE SCHOLAR

APRIL 2021 – PRESENT

- Selected as one of 240 students for a 6-year college access, college success and professional development program for high achieving, underrepresented first generation talent.
- Participating in a four-year comprehensive Career Development Program that includes professional Career Coaching, case studies and projects to refine analytical, quantitative, and communication skills.

TECHNICAL EXPERTISE

Java, Python, C, C++, HTML, CSS, PHP, React, Racket, ReasonML, GitHub, Visual Studio Code, Git, MongoDB, Docker, WordPress, YAML, CyberDuck, and Web Page Inspection Tool, DeepLabCut.