

Jason Cheng

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🎓 Education

Rutgers University- New Brunswick, *Bachelor of Science in Computer Science* 🌐

09/2018 – 12/2021

- **GPA:** 3.91
- **Honors:** summa cum laude
- Phi Beta Kappa

💼 Experience

Akuna Capital 🌐

Software Engineer 2

04/2023 – present
Remote

- Designed and implemented high-throughput, cloud-native order entry and market data normalization pipeline for in-house trade surveillance platform
- Implemented Kaitai pcap parsers for NYSE Pillar binary order entry messages
- Extended in-house integration testing framework for new trading strategies and market data publishers.

Junior Developer

01/2022 – 03/2023
Remote

- Responsible for building and maintaining Akuna's real-time trade surveillance platform
- Worked alongside compliance analysts to respond to inquiries from US regulatory bodies and exchanges
- Ensured the completeness and timeliness of Akuna's FINRA Consolidated Audit Trail (CAT) submissions
- Screened prospective Python development candidates by grading HackerRank assessments and administering technical interviews
- Mentored and managed software engineering interns, ensuring their success and growth throughout the internship

PathAI, *Software Engineer Intern* 🌐

09/2021 – 12/2021
Remote

- Introduced browser caching of static files and deep zoom image (DZI) tiles in the clinical trial services application, which led to a 0.7 second improvement in page rendering time.
- Translated several Gitlab CI scripts from Bash to Python with added Pytest unit tests for easier maintenance.
- Created Datadog dashboards for AWS cost tracking and configured Datadog Synthetic Monitoring instances for website monitoring.

Amazon, *Software Development Engineer Intern*

06/2021 – 08/2021
Seattle, WA

- Designed and deployed a full-stack feature that enables the operations team to remove product attributes in the retail catalog.
- Built with React for UI, Java for backend logic, and TypeScript for AWS infrastructure provisioning
- Architecture powered by AWS technologies, including S3, DynamoDB, Lambda, SQS, and API Gateway

84.51°, *Software Engineer Intern* 🌐

01/2021 – 04/2021
Remote

- Built and deployed patient-health dashboards using Angular and Java Springboot onto Microsoft Azure
- Leveraged PostgreSQL to store and query geospatial data of census block groups for Azure map visualization
- Introduced Cypress End-to-End testing throughout the health web app

UnitedHealth Group, *Software Engineer Intern*

06/2020 – 08/2020
Remote

- Created an employee analytics web app using the MERN stack for the United Healthcare human capital team
- Leveraged internal TigerGraph database to perform graph analysis on employee digital exhaust data
- Implemented data visualization tools to depict employee communication networks

🔧 Projects

Aresty Research Center, *Research Assistant* 🌐

09/2019 – 04/2020

Principal Investigator: Professor Weihong Guo
Topic: Data Analytics for Advanced Vehicle Manufacturing

- Analyzed plant production data to monitor machine status, predict machine faults and identify the root cause of errors
- Utilized methods in statistical quality control, including univariate and multivariate control charts to monitor process control
- Responsible for data preprocessing, visualization, and performing data mining algorithms and statistical analysis

🧠 Skills

Python (PySpark, Dagster)

JavaScript (React)

Java (Spring Boot)

C

SQL (PostgreSQL)

Redis

AWS

Docker

Kubernetes

Prometheus

Grafana

Databricks

Kaitai

GitLab CI/CD

Apache Kafka