

Dewei Chen

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EDUCATION

NEW YORK UNIVERSITY

M.S. COMPUTER SCIENCE

Courant Institute of
Mathematical Sciences
Graduated in Dec 2015

UC SAN DIEGO

B.S. MECHANICAL ENGINEERING

Jacobs School of Engineering
Graduated Cum Laude in Jun 2009

SKILLS

PROGRAMMING

Node • TypeScript • Go
Python • Ruby • C

FRONTEND

React • Angular

BACKEND

Nginx • Express.js • Koa.js
Django • RabbitMQ

DATABASE

PostgreSQL • Redis
MongoDB

DEVOPS

Docker • AWS
Ansible • Terraform

LINKS

Website: <https://mutaphore.github.io>
Github: <https://github.com/mutaphore>

COURSEWORK

GRADUATE

Algorithms and Data Structures
Distributed Systems
Machine Learning
Realtime Big Data Analytics
Advanced Operating Systems
Programming Languages
Discrete Mathematics

INTERESTS

Distributed Systems
Cryptocurrencies
Machine Learning

EXPERIENCE

SECOND SPECTRUM | SOFTWARE ENGINEER

Mar 2017 – Present | Los Angeles, CA

Second Spectrum is the official optical tracking provider of the NBA and collects player data to enhance the game viewing experience through machine intelligence. I'm on the infrastructure team responsible for building and scaling out our live video delivery pipeline.

- Design and develop highly available services to ingest live video feeds from physical encoders and deliver to CDN origin and client players.
- Build, monitor and scale infrastructure on AWS: networking, DNS, load balancers, S3, SQS and lambdas.
- Build and improve internal DevOps tooling for automating CI/CD processes.
- Video streaming R&D on DRM encryption and player prototyping.

SYNOPSYS (CODISCOPE) | SOFTWARE ENGINEER

Jan 2016 – Mar 2017 | Boston, MA

Codiscope (acquired by Synopsys) builds cloud-based tools to analyze Java and JavaScript source code for security vulnerabilities from the OWASP top 10. I was the 5th engineer on the team with focus on developing our core Nodejs backend microservices.

- Led the agile development of new product features and improvements: technical design, proof-of-concept, implementation, testing and deployment.
- Developed core backend services/APIs for data access, identity access management, repository management and third party integrations.
- Designed and implemented new registration system that reduced user sign-up friction and doubled user registration conversion rate.
- Developed scripts to migrate and sync all existing customer data from Zendesk to Salesforce (50,000+ unique users).

EMPIRASIGN STRATEGIES | SOFTWARE ENGINEERING INTERN

Oct 2014 – Oct 2015 | New York, NY

Empirasign is a market data company that collects and supplies bond trading data from major banks in the U.S. and Europe. I worked on front and backend development projects.

- Developed Python programs to efficiently parse realtime bond trading data from emails, files and websites. Improved email search algorithm speed by 20%.
- Wrote client and server side code for an anonymous trade chat system.
- Developed backend APIs and custom tools to integrate with Google Analytics, Salesforce, Mail Chimp, Twilio and Pubnub.
- Tested and enhanced website user interface and Django backend APIs.

OPEN SOURCE

RTSP CLIENT SERVER JAVA

<https://github.com/mutaphore/RTSP-Client-Server>

Implementation of a video streaming server and client that communicate using the Real-Time Streaming Protocol (RTSP) and Realtime Transfer Protocol (RTP).

CONTAINER DISPATCHER GO, DOCKER

<https://github.com/mutaphore/docker-dispatch>

A dispatching service that creates docker containers from RabbitMQ messages. Communicates with Docker daemon using the RESTful remote API.