

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.js • Go • Python
Java • C • Objective-C
PHP • SQL • Matlab

FRAMEWORKS

Express.js • Hapi.js
React.js • Angular.js
Django • Hadoop

STORAGE

PostgreSQL • Redis
MongoDB

TOOLS

JIRA • Confluence
Git • Docker • AWS
Linux • Bash • JMeter

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

CODISCOPE | SENIOR SOFTWARE ENGINEER

Jan 2016 – Present | Boston, MA

Codiscope (now acquired by Synopsys) builds cloud-based tools to analyze Java and JavaScript source code for security vulnerabilities. I'm the 5th engineer to join the company and my work is focused on developing our core Nodejs backend microservices.

- Lead the agile development of new product features and improvements: technical design, proof-of-concept, implementation, testing and deployment.
- Develop core backend services in the areas of identity access management, database drivers, repository manager, admin portal and Salesforce integration.
- Designed and implemented new registration system that reduced user sign-up friction and doubled user registration conversion rate.
- Developed scripts to help migrate and re-map all existing customer data from Zendesk to Salesforce (50,000+ records).

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. As an intern I put on many hats and have worked on development projects in both front and backend.

- Wrote Python programs to efficiently parse realtime bond trading data from emails, files and websites. Improved email search algorithm speed by 20%.
- Developed 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.
- Enhanced and tested website user interface and Django backend APIs.

MENTOR EDATA | MOBILE APPLICATION DEVELOPER

Nov 2013 – Aug 2014 | San Luis Obispo, CA

Mentor Edata created the DrivingBuddy app that collects GPS and car ECU data to generate a score and provide feedback to help drivers understand their driving skills. My focus was on developing the iOS mobile app.

- Successfully released three production versions of app to the Apple iTunes store and many beta test versions to testers.
- Developed code to collect real-time car engine data by reading the ECU and upload to server for score analysis.
- Developed an Objective-C static library that provides an API for integration with third party data providers.
- Improved overall app UI responsiveness by adding multi-threading logic to server side code and database queries.

OPEN SOURCE PROJECTS

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.

STREAMING VIDEO SERVER Java

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

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