Dewei Chen

Personal

Email: dewei.chen@cs.nyu.edu • Phone: (408) 470-8116 • Website: http://cs.nyu.edu/~dc3186

Education

Sep '14-Present | M.Sc. Computer Science - **New York University**
Courant Institute of Mathematical Sciences, *Expected Graduation: Dec 2015*

Graduated Jun '09 | B.Sc. Mechanical Engineering - **University of California, San Diego**
Jacobs School of Engineering, Gpa: 3.73/4.0 *Cum Laude Honors*

Experience

Oct '14-Present — **Data & Software Development Intern** at Empirasign Strategies LLC, New York, NY

- Write efficient programs to parse real-time bond trading data found in emails, spreadsheets, pdf's and web pages. Improved email search algorithms by 20%.
- Developed client and server side code for an anonymous trade chat system that is featured on Bloomberg Business.
- Created browser fingerprinting algorithm to detect malicious user account sharing.
- Program Python scripts to interface with Google Analytics, Salesforce, Mail Chimp and other tools used to quantify and categorize both current clients and prospects.
- Enhance, extend and test website UI and Django server side code.

Nov '13-Aug '14 — **iOS Mobile Application Developer** at Mentor EData, San Luis Obispo, CA

- Significantly improved app UI responsiveness by adding multi-threading logic to server side and database querying code.
- Wrote 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 API for third-party driver data collection.
- Successfully released three production releases of app to the Apple iTunes store and many beta versions to testers.

Apr '10-Jun '13 — **Mechanical/Applications Engineer** at Nordson Asymtek, Carlsbad, CA

- Fabricated mechanical tools used in production of fluid dispensing robotic systems.
- Troubleshoot robotic software and hardware failures using root cause analysis.
- Managed lean manufacturing and continuous improvement projects.
- Provided technical support for clients. Hosted equipment buy-offs, on-site training and evaluations for customers within the US and Asia.

Programming

Languages: Python, Java, C, Objective-C, Javascript, SQL, HTML, CSS, LaTeX
Frameworks/API's: Django, JQuery, Google Charts, Bootstrap, Twilio, Pubnub, openpyxl
Dev Tools: Git, Subversion, Bash, Vim, Eclipse IDE, XCode, GDB

Projects

Social News Analytic: Use Hadoop Hive and MapReduce to correlate website contents and upvotes data.
JOS: An exokernel OS with a boot loader, virtual memory, process envs and file system.
LR Predictor: Web app that fits X-Y dataset with a linear regression line and makes predictions.
LZW Compressor: A compressor that uses the Lempel-Ziv-Welch lossless data compression algorithm.