

Andrew M. Hou

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Work Experience

Textio

Software Development Engineer, July 2018 – Current

- Lead Engineer on many products, including in-app analytics and multiple internal tools. Lead a team of multiple engineers and designers.
- Created Lambda-based ETL jobs to power in-app analytics, orchestrated by AWS StepFunctions and stored in DynamoDB.
- Built a novel-for-Textio pipeline collecting time-series historical data, implementing AWS Batch.
- Built Docker-based grammar-checking web service, deployed to AWS Elastic Container Service.
- Created a daily crawler that aggregates user emails written using the Textio for Outlook plugin in order to measure efficacy, using AWS Lambda and AzureAD.
- Repackaged and refactored document scoring models in order to ease the integration of new model factors.
- Created standard operating procedures for reporting project statuses across the company.

TUNE, Inc.

Software Development Engineer, May 2015 – June 2018

- HasOffers API. Modernizing development practices, integrating with a continuous-integration pipeline, and improving deployments. Migrating from a puppet-based deployment to docker.
- Push Prepare Pipeline for In-App Marketing, processing and managing millions of personalized push notifications.
- App Store Analytics with a Ruby on Rails application.
- Web crawling and data ingestion of over 2 billion data points daily.
- APIs for exposing data both internally and externally.
- Architecting microservices using Docker, Resque, Sidekiq, Elasticsearch, MySQL, and Ruby.

Amazon.com, Inc.

Software Development Engineer, February 2013 – April 2015

- Developed and distributed Amazon SDKs for Android-based Kindle devices, including Fire Phone, Fire TV, and Fire Tablets.
- Created sample applications exhibiting the use of Amazon APIs for distribution to 3P developers.
- Curated Amazon platform APIs for distribution in Amazon SDKs.
- Created in-house tools for guaranteeing API compatibility and measuring API

differentiation.

Cequint, Inc.

Software Development Engineer, August 2012 – January 2013

Software Test Engineer, October 2011 – August 2012

- End to end testing on mobile applications and back-end systems.
- Development of in-house test-automation and test-tooling.
- Developed content-rich multimedia mobile messaging system for carriers to reach customers. Implemented in HTML, CSS, Javascript, and native Android (Java).

Warehouse Rock Gym

Core Staff, August 2008 – June 2011

- Performed multiple responsibilities in a small business where flexibility and adaptability were required on a daily basis.
- Routesetter. Managed volunteer routesetters, coordinated setting schedule. Set routes for bouldering and sport climbing walls. Performed wall maintenance. USA Climbing Routesetting Level 1 Certification.
- Managed Events calendar, including climbing competitions, birthday parties, and special events.
- Instructor. Provided instruction including belay classes, movement and training technique, and safety exercises.
- General staff. Responsible for member check-in, point of sale, data entry, customer service, and general cleanliness of the facility. Performed cash-out and deposit dropoffs as needed.
- Continued as volunteer routesetter for annual South Sound Pull Down competition until 2013.

Volunteer Experience

Stephen Ministry

Bethany Community Church, February 2018 – Current

- Conduct weekly lay-caregiving visits with individuals for spiritual and emotional needs.
- Act as Group Leader for a team of 5 volunteers.
- Participate in over 50 hours of training in order to become qualified for serving, covering topics such as confidentiality, boundaries, and methods for peer-to-peer support.
- Participate in bimonthly continuing education.

California Balboa Classic

Registration Director, April 2016 – Current

- Registration director for a non-profit Balboa swing dance festival in Newport Beach, CA.
- Managed registration system for all guests, with over 700 attendees.
- Managed all incoming payments, grossing over \$140,000.
- Manage a team of 8-10 volunteers, processing timely check-ins over the course of the weekend.

Northwest Balboa Festival

Co-founder, January 2014 – Current

- Co-founder and Organizer of a non-profit Balboa swing dance festival in Seattle, WA.
- Event hosts 150–200 attendees with classes, live music, happy hours.
- Yearly gross of over \$10,000, remaining steady over the last 3 years.
- Maintain festival website, run registration system, Emcee during event.
- Manage a team of 8–10 volunteers over the course of the weekend.

Climbing Area Maintenance

- Regularly inspect safety equipment at local climbing areas, replacing it when necessary.

Boy Scouts of America

Member, December 2004 – January 2012

- Eagle Scout, National Eagle Scout Association member
 - Order of the Arrow, Vigil member
 - Assistant Scoutmaster, Troop 9–266, Pacific Harbors Council
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Education

University of Washington

B.A. Mathematics, September 2008 – August 2011

Skills

- Ruby, Python, Docker, Elasticsearch, Java, Android, GNU Make, JavaScript, HTML, CSS. Can work natively in Linux, Mac, and Windows.
- Fluent in Mandarin Chinese and English. Excellent communication and analytical skills.
- Experienced in leading teams between 8–10 people on a regular basis, in both volunteer and professional capacities.
- Swing dance instructor and event organizer.
- Extremely proficient rock climber, with outdoor redpoint grades of up to 5.13 (sport), V8 (boulder), 5.12 (traditional), and Grade VI (big wall).