

# JETHRO LAI

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**OVERVIEW** A software generalist with experience in microservices, APIs, backend, full stack development, testing, infrastructure and devops. Primary skills: Java, AWS, Python, Javascript/React., Spring, PHP, Unix

**EDUCATION** **M.S.** in Telecommunication and Networking Engineering, *University of Pennsylvania, USA* (2008)  
**B.S.** in Electrical Engineering and Communication Engineering (minor) ,*Yuan Ze University, Taiwan R.O.C.* (2004)

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**Carta** *San Francisco & Palo Alto, CA*

11 / 19 – 04 / 20

**Staff Software Engineer**

- Founding member and designated tech lead of the LLC and Enterprise team.
- Top contributor of the LLC services and projects.
- Design system architecture, implementation patterns and best practices for initial development.
- Provide mentorship to peer engineers.
- Directly working on product development especially for complex subjects.

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**Personal Capital** *Redwood City, CA*

10 / 17 – 11 / 19

**Principal Software Engineer** (since 07 / 19) ← **Senior Software & AWS Engineer**

- Create the Event Data Pipeline using AWS Kinesis, Lambda, DynamoDB, CloudFormation (First in company)
- Create real-time event based message triggering (Kinesis, Lambda, DynamoDB, SQS)
- Create the Image Service, the first REST API in the company. (First in the company, SpringBoot, ElasticBeanstalk)
- Create the Know Your Customer Service to support knowledge based authentication
- Create Subscription service to manage user's communication preference
- Create real-time email tracking pipeline for measuring open, click, and other activities (ExactTarget, Kinesis, Lambda)
- Dockerized Advice & Communication Engine and migrate to EKS based platform

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**Quantcast** *San Francisco, CA*

06 / 17 – 10 / 17

**Software Engineer (Full Stack), AdReporting/Attribution/Split Funnel Analysis**

- Develop scalable data processing systems for customer-facing attribution, reporting and analysis suite
- Work closely with UX and Product Management team to design and implement full-stack attribution, insight features
- Develop and operate a set of custom facing reporting and attribution services, APIs and applications.

07 / 15 – 06 / 17

**Software Engineer (DevOps), Developer Tools**

- Work with developers all around the world to build technologies that help them be more productive
- Design and promote developmental and operational best practices and train and coach developers
- Develop *Universal Ticketing System* that provides task management, escalating and alerting across the entire company
- Create technologies for development platforms including puppet forge, AWS guidebook, QJJB, SLAs dashboard, etc.
- Develop and operates over 40 internal services ( first-party and third party) including UTS, jenkins, monitoring, metrics, centralized logging, host configuration, internal wiki, internal github, jira custom development, artifactory and others

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**Truly** *New York, NY, San Francisco, CA*

08 / 13 – 03 / 15

**Chief Software Architect / Founding Engineer**

- 50% development, 25% product development, 25% project and team management
- Lead technical development in all perspectives including design, implementation, testing and operation
- Re-implement and refactor the entire system in first month for better maintainability, extensibility and robustness.
- Create development platforms and conventions including build process, implementation, model migration and testing.
- Implement development process and coach all members about agile methodology.
- Implement lots of integrations including Twilio APIs/TwiML, Google APIs, Microsoft Office 365 APIs, Salesforce APIs
- Design an interview process for a better hiring decision.

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**Comcast** *Philadelphia, PA*

01 / 11 – 08 / 13

**Software Development Engineer / Software Engineer in Testing (SDET)**

- Develop backend and middleware services as APIs and data services for ingesting, synthesizing and delivering large data to core applications and products including X1/X2 platform, STBs, mobile and web clients.
- Develop universal integration test suites (GreenBuild). The test size and coverage grew over 10X. The number of tests increased from less than 100 to over 2000 cases and the coverage went from less than 10% to nearly 100%.
- Create a backwards compatibility test framework for core data services

06 / 10 – 09 / 10

**Software Engineer Intern**

- Develop *Remote Tune* project, a set of integrated interactive UIs and APIs that allows users to control their STB and DVR directly through various media

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**Bashpole Inc.** *Philadelphia, PA*

09 / 08 – 12 / 10

**Master Software Engineer**

- Lead the engineering team, product,, frontend, backend, system and infrastructure development.
- Develop the company's first product, *MeetPeoplePlaces*, second product, *Updentity* (DARPA funded)
- Complete a client project ( Sourcerer, *KnolSoft Inc.*)