

Wen-Hao Lue

me@wenhaolue.com | wenhaolue.com | github.com/wlue

My name is **Wen-Hao Lue**, and I'm a Software Engineer with a passion for engineering and design. I really enjoy solving challenging/unique problems and to make product that have positive impact on people.

Summary

- **Mobile** – Deep knowledge in developing **iOS applications** with 9 years of iOS experience. I have created and made large contributions for many apps that can be downloaded in the App Store.
- **Web** – I understand both front and back end design from small websites to large scale deployments. At Twitter, I wrote **real-time map reduce** jobs and **distributed services** in Scala. I designed the back-end and front-end infrastructure at my startup **Sesame** using Python and JavaScript/Node.
- **Design** – Deep emphasis on usability, user experience, and visual design in the products I make.

Work Experience

Sesame HQ, Founder/CTO, Toronto/Waterloo, 2014 – present (sesamehq.com)

- Designed and implemented core iOS app, frontend, and backend microservice architecture.
- Used Swift/Objective-C, React/Flux, Node, Python, Django, PostgreSQL, Redis, Ansible, AWS.
- Managed and mentored an engineering team of 4 and co-op students.
- **Imagine K12/Y Combinator Fall 2015**

Twitter, Software Engineer, San Francisco/Boston, 2013 (twitter.com)

- Shipped [Twitter Headlines](#), contributing on the lambda infrastructure implementation [Summingbird](#).
- Used JavaScript, Scala, Hadoop, Storm, Thrift, Scalding, Summingbird, and Apache Mesos.
- Designed interactive data visualization tools using d3, Backbone, and Rails for [Fabric Answers](#).

Square, iOS Engineer, San Francisco, 2012 (squareup.com)

- Worked on product-facing features for Square Register, a point-of-sale application for the iPad.
- Open sourced [PonyDebugger](#), a remote debugging toolset that allows developers to use Chrome Developer Tools for native iOS applications. ([blog post](#))

Glooko, iOS Engineer, Palo Alto, 2011 (glooko.com)

- Developed an iPhone app that allows diabetics to download blood glucose readings to their iPhone to help manage their diabetes using Objective-C.

Pivotal Labs, iOS Engineer, Toronto, 2010 – 2011

- Developed an iPhone application that lets users track workouts and record runs using the GPS.

Projects

Mixbox, 2014 (mixbox.io)

- iPad app that lets you make remixes and mashups of songs using pitch detection/beat matching algorithms in a intuitive and fun to use drag-and-drop interface. Won \$10k pitch competition.

Mantaphrase, 2012 (mantaphrase.com)

- Wrote an iOS app to help travellers communicate with people in a foreign language.
- Featured on [TechCrunch](#).

Education

Bachelor of Software Engineering, Co-op Program, **University of Waterloo**, 2009 - 2014