Keen Yee Liau

546 Main St. Apt 827

New York, NY 10044

(734) 747-0922

kyliau@umich.edu

https://kyliau.github.io

Education

- **University of Michigan** — Ann Arbor, MI

  Master of Science, Aerospace Engineering — Sep. 2012 - May 2014
    - Computational methods and flight software.

  Bachelor of Science, Aerospace Engineering — Jan. 2008 - May 2011
    - *Summa Cum Laude*

- **Stanford University** — Stanford, CA

  Certificate of Completion in Computer Science — June 2013 - Aug. 2013

Work Experience

- **Bloomberg LP** — New York, NY

  Infrastructure Software Engineer — Dec. 2014 - Present

  1. Version Release System (VRS)
      - A critical service that performs dependency tree resolution of Javascript applications in real-time.
      - This enables automatic software update and targeted software deployment based on a flexible set of rules.
      - Serves 22 million requests every day.
      - Written in C++ (backend) and Javascript (UI).

  2. Bundle Publishing
      - Developed a pipeline to validate, optimize, package, and distribute Javascript code for a new platform that powers the Bloomberg Terminal.
      - Service runs on the cloud and is used to publish about 1000 Javascript applications.
      - Written in Javascript using Node.js runtime.

  3. Resource Access Validation (RAV)
      - A permissioning system that allows developers to restrict and monitor usage of their APIs.
      - Written in C++ (backend) and Javascript (UI).

- **FlightAware** — Houston, TX

  Intern — June 2014 - Oct. 2014
    - Improved the reliability of FlightAware public APIs by developing a comprehensive test suite in Python.

- **Stress Analysis and Design Aerospace** — Kuala Lumpur, Malaysia

  Structural Engineer — Sep. 2011 - July 2012
    - Co-authored six stress dossiers for static analysis of Flight Test Instruments (FTI) on the new Airbus A350XWB using classical methods and finite element modeling.
    - Developed a program to estimate the lifespan of an aircraft by analyzing fatigue and cyclic loads on the wings.

Skills

Programming: C++, Javascript, Python

Operating Systems: Windows, Mac OS X, Linux

Languages: English, Chinese, and Malay