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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

Operating Systems: Windows, Mac OS X, Linux

Languages: English, Chinese, and Malay