

Justin Ying

Software Engineer

LinkedIn: [linkedin.com/in/just10ying](https://www.linkedin.com/in/just10ying)
GitHub: github.com/just10ying
Email: just10ying@gmail.com
Website: just10ying.com
Phone: (484) 580-9464

Professional Experience

Epic Systems

Java, Android Development (4.0+)

Android Application (May – August 2015)

- Developed an Android activity that allows physicians to create text and drawing annotations on images
- Utilized OpenCV for image processing to allow for distance annotations given a reference object
- Designed annotations to support cross-platform compatibility with iOS devices

Web Application (May – August 2014)

C#, ASP.NET, JavaScript

- Produced a secure, responsive ASP.NET web application
- Accessed Caché database in C# using proprietary ORM to store and retrieve relevant data
- Collaborated with user experience and quality assurance staff to design and implement a scalable user interface

Swanson School of Engineering

C, Java, jQuery, Bootstrap

Ray Tracer (January – May 2015)

- Created a ray tracer to simulate heat radiation in thermoelectric devices
- Utilized GPU acceleration to improve drastically the simulation's speed and precision
- Developed a web interface for remotely managing simulations using Java's HttpServer and Bootstrap
- Second author of Energy journal article "Numerical Solution of Radiation View Factors within a TED" (under review)

Bentley Systems

C++, Python

Codebase Maintenance (May – August 2013)

- Modified MicroStation source to comply with C++11 standards using Python and regular expressions
- Refactored legacy code to improve maintainability

Projects

Localization and Navigation System: Wearable Device

Python, PCB Design & Fabrication

- Utilizes ultrasonic rangefinders and a gyroscope to guide visually impaired users

Tab Cleaner: Chrome Extension

HTML, CSS, JavaScript

- Provides new tab customization options

Donation Reporter: Desktop Application

C#, SQL, WPF

- Retrieves, formats, and emails donation records

PeopleSofter: Google App Engine Application

GAE, Django, Python

- Searches the University of Pittsburgh course catalog and visualizes class schedules

Centralized Traffic Control Display: Java & Web Application

Knockout.js, Bootstrap, Java

- Interacts asynchronously with other Java modules to display railway status via a web interface

Academics

University of Pittsburgh
GPA: 3.73/4.00

B.S. in Computer Engineering
Graduation: April 2016

University of Pittsburgh Full Tuition Honors Scholarship
Swanson School of Engineering Dean's Honor List
National Merit Scholarship Recipient

August 2011 – Present
August 2011 – Present
August 2011 – April 2012

Leadership

Historian & Web Admin: Society of Asian Scientists and Engineers
Violinist: invited to perform at Carnegie Hall; solo appearances with five orchestras
WISF-15 TV appearance; winner of numerous music scholarships and competitions

October 2013 – November 2014
July 2008 – Present