

JUSTIN YING

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ACADEMIC INFORMATION

University of Pittsburgh: Swanson School of Engineering
Major: Computer Engineering

QPA: 3.73/4.00

EXPERIENCE

Epic 05/2015-08/2015

Software Development Intern

- Created a multi-layer annotation tool for Android that supports drawing, text, and measurement annotations
- Utilized OpenCV for reference object detection, allowing for relative distance measurements
- Designed an easily-extensible layer structure that supports cross-platform compatibility with iOS devices

Simulation of Radiation in Thermoelectric Devices 01/2015-05/2015

Research Assistant

- Created a ray tracer to calculate high resolution heat radiation view factors for variable TED geometries
- Optimized and parallelized the simulation via GPU acceleration to run hundreds of times faster than the existing Matlab script with greater precision
- Co-authored journal article "Numerical Solution of Radiation View Factors within a Thermoelectric Device" currently under review for engineering journal *Energy*

Epic 05/2014-08/2014

Software Development Intern

- Collaborated with UX and QA staff to produce a fully-functional, polished, and secure web application
- Designed and implemented an improved user interface that performed consistently across multiple browsers and scaled to varying screen resolutions
- Interfaced with Epic's database using proprietary ORM to store and retrieve relevant data

Bentley Systems (BSW) 05/2013-08/2013

Software Development Intern

- Upgraded the MicroStation build process for compliance with C++11 standards
- Transitioned enums to enum classes, enforcing their proper usage in the MicroStation codebase
- Refactored legacy code to improve maintainability

ACTIVITIES AND AWARDS

- Historian and Web Administrator: Society of Asian Scientists and Engineers 10/2013-11/2014
- National Merit \$2,500 Scholarship Recipient 08/2011-04/2012
- Swanson School of Engineering Dean's Honor List 08/2011-Present
- University of Pittsburgh Full Tuition Honors Scholarship 08/2011-Present
- Violinist: winner of numerous music scholarships and competitions, solo appearances 07/2008-Present
with five orchestras across three states, TV appearance, invited to perform at Carnegie Hall

SKILLS

- | | | |
|-------------------------|--------------|----------|
| ▪ HTML, CSS, Javascript | ▪ Java | ▪ Python |
| ▪ PC Hardware Assembly | ▪ C#, C++, C | ▪ SQL |