

JUSTIN YING

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PERSONAL INFORMATION

University of Pittsburgh: Computer Engineer

QPA: 3.73/4.00

I am a software engineer passionate about developing structured, organized code, creating intuitive, responsive, and effective user experiences, and maximizing program efficiency.

PROFESSIONAL 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

- Modified MicroStation source code to comply with C++11 standards
- Transitioned enums to enum classes, enforcing their proper usage throughout the MicroStation codebase
- Refactored legacy code to improve maintainability

SKILLS

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|-----------------------------------|-------------------------------------|----------|
| ▪ Web Application Development | ▪ Java, C#, C++, C | ▪ Python |
| ▪ Android Application Development | ▪ Digital Hardware Design, Assembly | ▪ SQL |

ACTIVITIES AND AWARDS

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|--|-----------------|
| ▪ Historian and Web Administrator: Society of Asian Scientists and Engineers | 10/2013-11/2014 |
| ▪ National Merit \$2,500 Scholarship Recipient | 08/2011-04/2012 |
| ▪ University of Pittsburgh Full Tuition Honors Scholarship | 08/2011-Present |
| ▪ Swanson School of Engineering Dean's Honor List | 08/2011-Present |
| ▪ Violinist: winner of numerous music scholarships and competitions, solo appearances with five orchestras across three states, TV appearance, invited to perform at Carnegie Hall | 07/2006-Present |