JUSTIN YING

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ACADEMIC INFORMATION

Undergraduate Education: Swanson School of Engineering: University of Pittsburgh   08/2011-12/2016
Major: Computer Engineering   QPA: 3.73/4.00

EXPERIENCE

Epic Systems   05/2015-08/2015
Software Development Intern
- Created a multi-layer image annotation tool for Android, which supports drawing, text, and distance annotations
- Utilized OpenCV for reference object detection, allowing for relative distance measurements
- Designed tool resolution to change dynamically to save memory without quality loss

Simulation of Radiation in Thermoelectric Devices   01/2015-05/2015
Research Assistant
- Created a program to calculate a high resolution heat radiation view factor for variable TED geometries
- Optimized and parallelized the simulation to run over two hundred times faster than the existing Matlab script
- Incorporated ray tracing techniques using Aparapi to allow for calculations at higher resolutions
- Co-authored journal article "Numerical Solution of Radiation View Factors within a Thermoelectric Device" currently under review for engineering journal *Energy*

Epic Systems   05/2014-08/2014
Software Development Intern
- Designed and implemented an improved user interface in Hyperspace for clinicians
- Augmented existing Hyperspace functionality for the notes activity
- Managed client / server interactions and data synchronization
- Collaborated with UX designers and QA staff to produce a polished web application
- Interfaced with Epic's database 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
- Enforced enum class safety as per C++11 standards

ACTIVITIES AND AWARDS

- Historian and Membership Mapper: 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 with five   07/2008-Present
  orchestras across three states, TV appearance, invited to perform at Carnegie Hall

SKILLS

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