Justin Carr

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Education

Master of Science in Computer Science - Oregon State University   Winter 2013
>   GPA: 3.34

Bachelor of Arts in Philosophy, minor in Computer Science - Willamette University   Spring 2010
>   GPA: 3.6

Selected Projects

Master's Degree Project: Mobile Virtual Reality Navigation   Spring 2012
- Prototype application maps real-space mobile device motion to virtual-space camera motion.
- Investigates and discusses the feasibility of creating simple 3D input devices from mobile computing platforms without additional custom hardware.
- Analyzes and characterizes the performance of dead-reckoning navigation as a solution for robust, mobile, real-space navigation for future study.

HealthTrack Interface Sprites   Winter 2012
- Designed and tested POV-Ray ray-tracing scripts to create stylized models and images for Oregon State University's HealthTrack mobile medical adherence study.
- Created and maintained an iterative design-feedback workflow where models were delivered via distributed git repositories and feedback was given via in-person meetings.

3D Flow Visualization   Winter 2011
- Visualizes simulated flow data by rendering a 3d array of customizable vector glyphs.
- Explores flow data interactively by allowing the user to filter, pan and zoom through the visualization.

Work Experience

Puppet Labs Engineering Intern   Summer 2013
- Expanded the Puppet Enterprise/PuppetDB version-checking system to include a product-usage telemetry pipeline.
- Created a unit-testing suite to validate changes to the version-checking system's source code.
- Implemented a proof-of-concept dashboard to allow employees to see Puppet-usage data around the Puppet Labs office.

Business Solutions Group (BSG) Student Intern   Spring 2011
System Analyst
- Analyzed and simplified University Honors College business processes for replication in Salesforce.
- Architected Salesforce Object schema to handle simplified Honors College data model.
- Designed custom lookup table system to supplement Salesforce relationship features.

Developer
- Wrote custom Apex scripts to format Access and Oracle data for Salesforce.
- Delivered SSIS packages and automated package execution plan for transferring data from Oracle and Access databases to Salesforce.
- Created and tested a custom Salesforce user interface.

Skills

Tools: Git, Emacs, Leiningen, XCode, Visual Studio 2010, TFS
Languages: Clojure, C++, Objective-C, Bash, SQL, Haskell, HTML, CSS