

Justin Carr

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Education

Master of Science in Computer Science - Oregon State University GPA: 3.34	Winter 2013
Bachelor of Arts in Philosophy, minor in Computer Science - Willamette University GPA: 3.6	Spring 2010

Selected Projects

Master's Degree Project: Mobile Virtual Reality Navigation <ul style="list-style-type: none">Currently developing a prototype application that 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.	Spring 2012
HealthTrack Interface Sprites <ul style="list-style-type: none">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.	Winter 2012
3D Flow Visualization <ul style="list-style-type: none">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.	Winter 2011

Work Experience

Puppet Labs Engineering Intern <ul style="list-style-type: none">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.	Summer 2013 - Present
Business Solutions Group (BSG) Student Intern System Analyst <ul style="list-style-type: none">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 <ul style="list-style-type: none">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.	Spring 2011

Skills

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