

Jesse M. Porch

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Full-stack Software Developer with a superb attention to detail and extensive experience in all phases of the software development lifecycle. Comfortable with diverse technologies, design methodologies, and on-the-job learning. Committed to the success of the team through consistent emphasis on collaboration and leadership initiative. Effective communicator to both technical and non-technical audiences.

Core competencies include: Full Stack Web Development. Database Architecture and Administration. Data Analysis. Test Plan Creation and Execution. Budget and Schedule Management. Research, Writing, and Editing.

Work Experience:

Trinity Fellows Academy | Royal Oak, MD | Fall 2015 – Summer 2016

Interdisciplinary academic and research fellowship dedicated to equipping emerging leaders for engagement in today's world.

Research Fellow

- **Organized and oversaw 3 conferences** of 50+ guests, coordinating among 8 teams to ensure all were able to complete assigned tasks. Tracked budget and scheduled work shifts for 12 fellows and additional help.
- **Performed independent research** and authored a thesis and supplemental essays. (**Portfolio**)
- **Hospitably welcomed hundreds of guests** of the **Osprey Point Retreat and Conference Center** through service, kitchen support, and housekeeping duties. Prepared monthly work schedule to fairly distribute shift assignment.

InterSystems Corporation | Cambridge, MA | Summer 2011 – Summer 2015

Database technology company whose Caché database powers major providers of electronic healthcare records around the world.

Application Developer

- Performed **full-stack development of mission-critical applications** for internal departments.
- **Prepared comprehensive system specifications**, design documentation, deployment plans, and testing plans to ensure the safe and reliable deployment of code.
- **Defined and published core tools library** and related best practices used throughout company.
- **Supported company-wide rollout of team's agile workflow** through documentation and training in key software and practices.
- **Mentored 5 interns**, coaching them to the successful completion and deployment of projects using standard internal development, documentation, and revision control methodology.

Grove City College | Grove City, PA | Summer 2010

Private liberal arts college. The Sweezy Fund provides resources for the pursuit of research projects with qualified undergraduates.

Sweezy Research Fellow

- **Developed a complete integer ray tracing pipeline** using C++ and low-level assembly programming on specialized hardware.
- **Designed and implemented tools and library code** to support ongoing efforts in advanced ray tracing research.
- **Published a peer-reviewed paper** based on work in conjunction with team of researchers. (**Full Text**)

Projects:

Hermes

Project Lead, Documentation Editor, Mercurial Interface Programmer

- Team collaboration plugin for Microsoft Visual Studio 2010 built on Mercurial distributed source control
- Provided simplified GUI and basic automation for core version control tasks from within the Visual Studio user interface
- Windows Forms (C#)/Visual Studio Plugin

Rename and Merge Script Manager

Project Lead, Customer Liaison

- Software Engineering Practicum with Pittsburgh-area software company TrueFit Solutions
- Made UI and functionality enhancements to sponsor's internal script management toolkit
- Windows Forms (C#)

Tangere (Source Code)

Research Assistant, Paper Co-author, and Editorial Assistant

- Cross platform, template-based fixed/floating point ray tracing system
- Testbed for research performed by Sweezy Research Fellows in the CS department at Grove City College
- Contributed to fixed-point math library and core ray tracing engine (C++)

Education:

B.S., Computer Science, Hopeman School of Science, Engineering, and Mathematics | Grove City College | Fall 2007 – Spring 2011