

## **EXPERIENCE**

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**Google, Inc.** 2013-Present

*Senior Software Engineer*

*Datacenter Software*

**Datacenter Software - Google** 2022-Present

*Machine Health - Machine Management Attribution Lead*

**Datacenter Software - Google** 2020-Present

*Machine Health - Modeling Improvements*

**Datacenter Software - Google** 2014-2020

*Surgeon 3 - Lead Developer/Tech Lead*

**Datacenter Software - Google** 2013-2014

*R3/Silk Roads*

**NASA Jet Propulsion Laboratory** 2007-2013

*Software Engineer*

Designed, developed and maintained science processing software, ground system software, and data visualization software.

**Jason-3 - NASA/JPL** 2010-2013

*ARCS Software Development Lead*

Designed, architected and developed the Assistive Radiometer Calibration system for the Advanced Microwave Radiometer of the Jason-3 satellite. Oversaw one additional developer for this development. ARCS itself was a web-based tool for assisting science users in creating calibrations through iterative experimentation, metrics generations, and semi-autonomous recalibration.

**Jason-3 - NASA/JPL** 2010-2013

*Ground Software Development Lead*

Designed and developed ground system processing software for the JPL segment of the Jason-3 ground system. Software included data transfer, data processing, and data visualization tools.

**OSTM/Jason-2 - NASA/JPL** 2008-2013

*Payload Operations Systems Engineer*

Developed, maintained, and operated ground system processing software for the JPL segment of the OSTM ground system. Acted as day-to-day contact with partner agencies for mission operations.

## **EDUCATION**

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**Rose-Hulman Institute of Technology** 2003-2007

*B.S. in Physics and Computer Science*

**GPA: 3.85 Physics Area GPA: 3.81 CS Area GPA: 4.00**

## **EXPERTISE**

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**Programming Languages:**

C, C++, C# (.NET and Mono), Perl, Java, PHP, Python, SQL, Scheme, Matlab, Bash script

**Platforms:**

Linux, Windows