

Josh Heinrichs

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Work Experience

Mentor Graphics (formerly Solido Design Automation)

Saskatoon

Lead Software Verification Specialist

Dec. 2017 – Present

Release Manager

May 2017 – Dec. 2017

Software Engineer

May 2016 – May 2017

Currently working in a variety of areas with a focus on improving software quality and increasing developer productivity.

Responsibilities and achievements include:

- Overseeing and increasing the frequency of Variation Designer releases, an advanced variation-aware circuit design tool.
- Leading Variation Designer's verification team, ensuring that new and innovative features exceed customer expectations.
- Creating tools and processes to enhance the productivity of multiple rapidly growing development teams.
- Building a cascading merge request system to increase codebase stability and streamline collaboration.
- Improving the throughput, and efficiency of our continuous integration server.
- Expanding metrics to improve insight into the quality of our automated tests.

University of Saskatchewan Algorithm Research

Saskatoon

Undergraduate Researcher

May 2015 – Aug. 2015

Developed a Java application which allowed users to interact with and analyze Delaunay triangulations, and investigated into properties of certain restricted Delaunay triangulations.

University of Saskatchewan Software Research Lab

Saskatoon

Undergraduate Researcher

May 2014 – Aug. 2014

Worked alongside another student to understand and improve the quality of a large, mostly undocumented, probabilistic health model. Added version control, continuous integration, documentation, and unit and integration testing.

Education

University of Saskatchewan

Saskatoon

B.Sc. Honours Software Engineering

Sept. 2012 – April 2016

Graduated with high honours. Gravitated towards algorithms, programming languages, concurrent programming, and networking.

Skills

Languages: Python, Go, Groovy, Bash, Java, SQL, JavaScript, HTML, CSS, PHP, C#, C, C++, Scala

Tools/Platforms: Git, Jenkins, Jira, Travis CI, Make, PostgreSQL, SQLite, Redis, Maven, Gradle, AWS

Frameworks: Polymer, Android, Akka

Awards

Department of Computer Science Undergraduate Student Research Award:

Summer 2015

Department of Computer Science Undergraduate Student Research Award:

Summer 2014

University of Saskatchewan Novice Programming Contest Champion:

Fall 2013