**Chris**topher Douglas Johnson

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**OBJECTIVE** . ....

Seeking full-time employment in a challenging software engineering and research role where I am free to learn and improve my programming abilities and knowledge

**EXPERIENCE**

**Utah State University**   Logan , Utah          January 2015 - Present

*Research Assistant and Lab Manager* (of 5 other students)

* Programming simulation and **model fitting** software and tools using *Java*, *Python* and *Matlab*
* Designing and implementing **optimization software**, esp. meta-heuristics (**genetic algorithms**, sim. annealing)
* Researching **machine learning** techniques, including **neural networks**, **regression**, **feature extraction**
* Writing and editing journal and conference papers using *Latex*
* Increased speed of biofilm simulation software (Java) over 10 fold.
* Implemented robust 3D biofilm wrinkling into current model

**Orchid Event Solutions (Visit Salt Lake)**   Salt Lake City , Utah          December 2013 - August 2014

*Software Engineer*

* Reduced website development time by approximately 25%
* Led a software migration to newer tech including Microsoft TFS, Release Management, and Visual Studio 2013
* Programmed tools to automate website creation and deployment processes using *C#* and Windows *Powershell*
* Created websites for event registrations in C# and *ASP.NET*

**Carnections, Inc.**   Salt Lake City , Utah          June 2009 - December 2013

*Co-Owner and Webmaster*

* Co-founded and expanded Carnections, Inc., which brokers the shipment of automobiles nationwide
* Designed, created, and managed its website, carnections.com
* Planned and implemented search engine optimization

**Shipping Connections**  Salt Lake City , Utah          September 2007 - January 2013

*Web Developer and Software Engineer*

* Expanded online presence, improved interoffice efficiency, and increased sales by programming and managing several interactive, data-driven websites, information and communication tools and business applications utilizing *C#*, *MSSQL*, *ASP.NET, JavaScript*, and *Jquery*
* Spearheaded “going paperless” by computerizing the office’s organization, file system, and communication

**EDUCATION**

**Utah State University**   Logan, Utah          July 2016

*Computer Science, M.S., GPA 3.89*

Honors:

* Emphasis in **machine learning** (mostly optimization) and computational biology
* Select coursework: Intelligent Systems, Speech and Natural Lang. Processing, Bioinformatics, Database Systems
* Thesis: **Parameter Fitting a Multi-scale Model of Biofilm Morphology using a Parallelized Multi-objective Genetic Algorithm**

**University of Utah**   Salt Lake City, Utah          May 2012

*Psychology, B.S., GPA 3.75*

**University of Utah**   Salt Lake City, Utah          May 2012

*Philosophy, B.S., GPA 3.75*

Honors:

* Dean's List for 7 semesters
* Honors At Entrance Scholarship (full-tuition scholarship)
* Addnl. courses: Calculus I, II, III; Linear Algebra; Foundations of Analysis; Discrete Structures; Symbolic Logic

**Additional Honors**: Cottonwood High school Salutatorian in 2007 (2nd in graduating class of 600), National AP Scholar

**PUBLICATIONS**

See: <https://rehpotsirhc.github.io/>

*References and a draft of my thesis are available upon request.*