Christopher 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 courses: **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.