Chris Johnson

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SUMMARY.

Back-end Software Engineer of 6-years industry experience across the full stack using **C#**, **.NET**, **MSSQL**, TFS, Windows Server and other Microsoft technologies. Analytical thinker with excellent logical reasoning ability and superb written communication skills. Optimization and computational biology researcher with 2 years experience **model fitting** using **machine learning** techniques: including search algorithms, neural networks, regression, clustering and feature extraction programmed in **Matlab**, **Python** and **Java** (4 years experience with Java).

PROFESSIONAL EXPERIENCE

Utah State University   Logan , Utah   January 2015 - Present
Machine Learning and Computational Biology Researcher and Lab Manager
- ➔   Built optimization software and successfully applied it to fitting two biological models.
- ➔   Collaborated closely with the Institute of Systems Biology on modelling research.
- ➔   Increased speed of biological simulation software (Java) over 10 fold.

Orchid Event Solutions (Visit Salt Lake)   Salt Lake City , Utah   December 2013 - August 2014
Software Engineer
- ➔   Reduced website creation time over 25% by automating development, build and deployment processes.
- ➔   Led a successful software migration to newer technologies including TFS and Release Management.

Carnections, Inc.   Salt Lake City , Utah   June 2009 - December 2013
Co-Owner, Founder and Webmaster
- ➔   Designed, programmed, and maintained its website, carnections.com
- ➔   Significantly expanded online presence using search engine optimization (SEO)

Shipping Connections Salt Lake City , Utah   September 2007 - January 2013
Web Developer and Software Engineer
- ➔   Brought company into 21st century by building data-driven websites to increase sales and capture leads
- ➔   Gained formative experience across full development stack

EDUCATION

Utah State University   Logan, Utah   July 2016
Computer Science, M.S., GPA 3.89
- ➔   Emphasis in **machine learning**, optimization, and computational biology
- ➔   Select courses: **Intelligent Systems**, **Speech and Natural Lang. Processing**, Bioinformatics, **Adv. Database Sys**
- ➔   Thesis: **Fitting a Multiscale Biofilm Model 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)
- ➔   Addnl. courses: Calculus I, II, III; Linear Algebra; Foundations of Analysis; Discrete Structures; Symbolic Logic

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

PUBLICATIONS
- ➔ Third author on *Bridging the multiscale gap: Identifying cellular parameters from multicellular data*
- ➔ Two additional publications on biofilm modelling and parameter fitting are in-progress

See https://rehpotsirhc.github.io/ for more information on my master's thesis, publications, and code samples