

Senior Software Engineer Senior Software Engineer Senior Software Engineer Watervliet, NY
Software developer with expertise in mathematical modeling. Experience with the complete software life cycle requirements gathering, design, implementation, documentation and testing. Knowledge of several programming languages and software tools. Familiarity with creating computational models of scientific systems. Authorized to work in the US for any employer Work Experience Senior Software Engineer Cengage Learning - Clifton Park, NY July 2014 to June 2019 Optimized management of code and content for faster and easier deployments. Migrated a codebase from Subversion to git, increasing developer efficiency and code quality. Developed automated testing framework using JUnit, Postman and Jenkins. Managed AWS costs to save \$6500 per month. Major technologies used: Java and SQL in a Linux/MySQL environment Senior Software Developer WhoSay, Inc. - Albany, NY June 2012 to January 2014 Instituted eager loading of cached data. Contributed to a system for efficient tracking of statistical data. Mentored junior developers and testers. Major technologies used: Java and SQL in a Linux/MySQL environment Senior Developer Xerox Litigation Services - Albany, NY August 2007 to March 2012 Participated in all stages of development of a large-scale distributed agent-based storage and retrieval system for legal documents and files. Developed coding standards for Perl and PL/SQL. Major technologies used: C, Perl, Java and PL/SQL in a Linux/Oracle environment Software Engineer Simplicita Software, Inc - Troy, NY August 2006 to June 2007 Participated in design, implementation, testing and documentation of carrier-scale zombie remediation system operating at the DNS level. Major technologies used: C++, Perl and PHP in Linux, Solaris and FreeBSD environments Research assistant Rensselaer Polytechnic Institute - Troy, NY May 2002 to May 2006 Developed, implemented and documented algorithms to model nucleic acid ensembles. Created Web-based interface at <http://mfold.rna.albany.edu/?q=DINAMelt>. Major technologies used: C, Perl and Bourne shell scripts in a variety of Unix environments Education Doctorate in Computer Science Rensselaer Polytechnic Institute - Troy, NY 2004 to 2006 Master's in Computer Science Rensselaer Polytechnic Institute - Troy, NY 2002 to 2003 Bachelor's in Computer Science & Mathematics Rensselaer Polytechnic Institute - Troy, NY 1999 to 2002 Skills Software: Eclipse, IDEA, Tomcat, Karaf, Maven,

Ant, make, autoconf/automake, Perforce, Subversion, git, LATEX, lex/yacc, Languages: C, C++, Java, Perl, Bourne shell scripts, SQL, PL/SQL, JSON/YAML, XML, Databases & Data Stores: MySQL, Oracle, PostgreSQL, MongoDB, ElasticSearch/Lucene, Memcached Publications UNAFold: software for nucleic acid folding and hybridizing http://www.springerprotocols.com/Abstract/doi/10.1007/978-1-60327-429-6_1 2008 In J. M. Keith, editor, Bioinformatics, Volume II. Structure, Function and Applications, number 453 in Methods in Molecular Biology, chapter 1, pages 3-31. Humana Press, Totowa, NJ. ISBN 978-1-60327-428-9. DINAMelt web server for nucleic acid melting prediction http://nar.oxfordjournals.org/cgi/content/full/33/suppl_2/W577 2005 Nucleic Acids Res., 33, W577-W581.

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