

Sharon Minsuk

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<http://www.sharonminsuk.com/>

Objective: After recently returning to software development after a second career in biological research, I want to immerse myself in cutting-edge software technologies, capitalizing on the strengths that served me well in both careers: creativity, logical rigor, focus, attention to detail, and adaptability.

Summary of qualifications

- Hybrid career: software development, and biological research (both computational and "wet")
- Web development: Javascript, CSS, HTML, some PHP, MySQL.
- Desktop app development: C/C++, Assembler, C#, Java, Fortran, some Python.
- Platforms: Windows, Unix, Mac OS X.
- Development environments: Visual Studio, NetBeans, and Xcode.
- Experience with all phases of the software development process, including design, implementation, testing, and documentation.
- Experience with both team-based and solo development.
- Excellent oral and written communication skills.

Software development experience

Web development

- Currently doing Javascript development. jQuery, CSS, Javascript widgets.

C/C++ development

- Recent project: camera control module for open source microscopy image acquisition software (C++, Windows, Visual Studio).
- Biological computer simulation, modeling cell biomechanics (C, Carbon API, Mac OS X, Xcode). See <http://www.sharonminsuk.com/> for demo.
- Biological computer simulation, modeling cell interactions during frog embryo development (C, Unix on a Sun workstation).

Assembly language development (6502)

- Regularly and extensively used for 7 years; accounts for most of the code in the following:
- Clinical diagnostics software for use in sleep disorders clinics: real-time collection of analog data, analysis of physiological episodes, user interface.
- Several educational software products, spanning pre-school, K-12, and college level.

Award: *Learning Magazine's* Outstanding Software of the Year Award for "Square Pairs" (memory game, part of Scholastic, Inc. *Wizware* product line).

Biological research experience

- PhD and postdoctoral research on embryo development and evolution.
- Research presentations at ECAL (bio-inspired computation), SICB (integrative biology) and other international conferences; won Best Student Paper award, Amer. Soc. of Zoologists.
- Published in peer-reviewed research journals.
- Awarded federal and private research grants, including NIH postdoctoral fellowship.
- Full academic CV available upon request.

Recent employment history

2010 Software Engineer, Kachingle Inc. (<http://www.kachingle.com/>)
2008 Lecturer (microscopy & digital imaging), Merritt College, Oakland, CA
2007-2008 Lecturer (biology), St. Mary's College, Moraga, CA
2004-2006 Biological computer simulation research, Konrad Lorenz Institute, Austria
1997-2003 Biology research, Indiana U., Bloomington

Education

- PhD, Molecular and Cell Biology (UC Berkeley).
- BS, Biological Sciences (Stanford University).
- Several programming language courses (Stanford U., Foothill College, Berkeley City College).