

7513 15th Ave NE
Seattle WA, 98115
(508)-320-3855

Benjamin Edward Childs
contact@bchilds.com - www.bchilds.com

OBJECTIVE

Full time position in Software Design and Development

EDUCATION

Worcester Polytechnic Institute, Worcester, MA
Bachelor of Science, Computer Science with Minor in Physics
Graduated May, 2008 with High Distinction
GPA: 4.0

Member Upsilon Pi Epsilon

Hanover High School, Hanover, NH
Graduated June, 2004

Related Coursework

- **Worcester Polytechnic Institute:** Computer Organization and Assembler Language, Algorithms, Systems Programming Concepts, Software Engineering, Operating Systems, Computer Graphics, Computer Animation, Foundations of Computer Science. Object Oriented Analysis and Design, Artificial Intelligence, Computer Networks, Human Computer Interaction, Distributed Computer Systems, Techniques of Program Language Translation, Theory of Computation, Programming Language Design, Algorithms: Design and Analysis
- **Dartmouth College:** Java Software Development, Structure and Interpretation of Computer Programs, Discrete Math

PROJECT EXPERIENCE

IQP Project (Bangkok, Thailand) – (January-February 2007)
Developing a Strategy to Improve Solar Home System Sustainability in Rural Thailand
http://bchilds.com/solar/SOLAR_Final_Report.pdf

MQP Project (Budapest, Hungary) – (March-April 2008)
Random Search Algorithms
http://bchilds.com/MQP/Random_Search_Algorithms_Final_Draft.pdf

SKILLS

Operating Systems: Microsoft Windows, Linux (Red Hat), Mac OS X
Programming Languages / API: C/C++, Java, C#, VB(6.0/.NET), ATL/COM, MFC, ASP.NET, PHP, MySQL, OpenGL, Java3D, Ruby, Ruby on Rails

EXPERIENCE 6/2008-Present

Microsoft, Redmond WA (www.microsoft.com)
Software Development Engineer, Natural Language Group

5/2007-8/2007

Microsoft, Redmond WA (www.microsoft.com)
Software Development Engineer Intern
Developed and evaluated machine learning algorithms for contextual spell checking using C++, C++/CLI and C#. (2007)

5/2006-8/2006

Implemented C#, Windows Forms wizard interacting with ASP.NET/SOAP web services. Created additional web services in Microsoft CRM application to enable automatic version management. (2006)

9/2004-5/2008

Surfract - Christopher Brown PhD, Worcester MA (www.surfract.com)
Software Development Consultant, Lead Development Consultant
Worked with existing developers to implement new features and fix bugs in surface analysis software while creating software using OpenGL to visualize the analysis in three dimensions. Worked in conjunction with Rob Scott (Uni. Of Ark) and NSF to create Toothfrax software for paper: <http://www.nature.com/nature/journal/v436/n7051/pdf/nature03822.pdf>. Wrote and released Sfrax, providing many new features for surface analysis including differentiation and correlation.

8/2002-8/2005

Accentus LLC, Hanover, NH (www.accentus.com)
Software Design and Development Consultant
Created prototype Auditory Display software. Worked in an entrepreneurial setting with three other developers to design and develop a second version of the software. Additional Responsibilities included web design (2002-2003) and IT Support (2002-2004).

PAPERS

Transpositions and move groups in Monte Carlo tree search
Authors: Childs, B.E., Brodeur, J.H., Kocsis, L.
Published: Computational Intelligence and Games, 2008. CIG '09. IEEE Symposium On, 389-395

Variable Length-scale Documentation of Stone Tool Microtopography to Determine Use.
Authors: Stemp, W.J., B.E. Childs, C.A. Brown, and S. Vionnet
Published: SAS Bulletin: Newsletter of the Society for Archaeological Sciences (2006) 29, 4: 17-21.

Differentiation of the surface topographies of pharmaceutical excipient compacts.
Authors: Narayan, P.; Hancock, B. C.; Hamel, R.; Bergstrom, T. S.; Childs, B. E.; Brown, C. A.
Published: Materials Science & Engineering, A: Structural Materials: Properties, Microstructure and Processing (2006), 430(1-2), 79-89.

HONORS

WPI: Salisbury Prize: 2008, **IQP Presidents Award:** 2007
Microsoft Technical Scholarship: 2006, 2007