J. Ian Johnson

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College of Computer and Information Science
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OBJECTIVE

A position in the betterment of programming language technology (implementation, analysis, dev tools) in the Boston area

EDUCATION

Doctorate of Philosophy, Computer Science
Northeastern University, Boston, MA — Projected May 2014

Master of Science, Computer Science
Northeastern University, Boston, MA — May 2011

Bachelor of Science, Computer Science
University of Texas at Austin, Austin, TX — May 2009
GPA 4.0

Bachelor of Science, Pure Mathematics
University of Texas at Austin, Austin, TX — May 2009
GPA 3.8

PROFESSIONAL EXPERIENCE

BMT Scientic Marine Services, Inc. — June – August 2009
Houston, TX — (SDE Internship)

- Created statistical visualization/analysis software from scratch
- Initial research on integrating a 6DoF accelerometer with GPS in a Kalman filter
- Control for a 1-axis robot to simulate random wave motion with spectral analysis
- User mode drivers for various devices.

Microsoft Corporation — June – August 2008
Sharepoint division, Redmond, WA — (SDE Internship)

- Created front-end administrative applications in ASP.NET
- Created back-end administrative applications in Powershell

NVIDIA Corporation — May – August 2007
Santa Clara, CA — (SDET Internship)

- Developed tests for the Windows OpenGL driver.

A SELECTION OF COMPUTER SKILLS

Languages (>10KLoC): in C/C++, Java, C#, Racket (PLT Scheme), ACL2, Coq, PHP, HTML
(>1KLoC) JavaScript, SQL, Haskell, Python, CSS
Editors: Emacs, Visual Studio (up to 2009), Eclipse
Operating Systems: Linux (Ubuntu since Dapper), Windows (95 - 7)

TALKS

"Designing Precise, Pushdown, Higher-Order Flow Analyses," IBM PL Day 2012

HONORS

Dean's fellowship, Northeastern University

INTERESTS

Programming language semantics, hygienic macros and staged compilation, optimizing high-level languages, interactive and automated theorem proving (rewriting logic, SMT solving, type theory), history of mathematics, biographies of scientists, gaming (console/PC/tabletop), walking, cooking, speaking Japanese, playing classical piano, enjoying heavy metal