

M. Isaac Jones

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Objective: Career opportunity applying my skills in software engineering, research, and productive collaboration

Qualifications:

- I have held a DoD TS/SI Security Clearance.
- Proven track-record in successful development of complex, research-oriented software
- Lead-by-coding approach to heading a software development team
- Experience in large development projects in Java, C, C++, Haskell, and ML; Smaller projects in Perl, Pascal, HTML, LaTeX & Texinfo, Lisp/Emacs Lisp, GTK, Scheme, & OCaml.
- Knowledge of development tools including Make, CVS, SVN, arch, Clearcase, Debuggers, Bugzilla (and other bug tracking systems), and the UML (UNIX, Linux, PC, Macintosh).
- Successful in facilitating communication between technical and non-technical interests.
- Experience and training with software engineering concepts including: software design, functional programming, dataflow analysis, testing, design & development of reusable and object oriented components.

Experience:

Senior Programmer Aetion Technologies , Columbus, Ohio (October 2002 – Present)

- Personal responsibility for directing a small, elite software development team in a complex research area
- Directed analysis and successful development (including customer-facing requirements) for a contract with General Electric Research
- Design and implementation of prototype software tools for DARPA and the Missile Defense Agency

Independent Software Developer Various Free Software projects (Present)

- Official member of the Debian GNU/Linux Software Development team
- Implemented security features for transfer and installation of software on end-user systems (*apt-secure*)
- Project leader of the Haskell Library Infrastructure Project (LIP)
- Presented L.I.P. design at invitation-only Haskell Implementor's Meeting, Stockholm, Sweden, 2003

Research Intern Center for Computing Sciences, Bowie, MD (Summer 2002)

- Developed software tools and methods for software reliability and program analysis / alias analysis.

Full Time Software Engineer Ohio State University - CIS Department, Columbus, OH (Sept. 2000 - July 2001)

- Development in Java of a large & critical employee management system.
- Experience in writing a large client / server system using RMI, encryption (SSL), secure authentication (certificate keypairs), SQL Database backend, and a Swing based GUI.

Software Engineer Intern Cisco Systems, San Jose, CA (Summer, 2000)

- Operating Systems programming.
- Maintenance of Calltracker, a subsystem of Cisco's Router Operating System (IOS).
- Training in Cisco router configuration and the IOS architecture.

Research Assistant Ohio State University - CIS Software Engineering Group, (June 1998 - June 2000)

- Part of the research team developing a research compiler for a Java-like language.
- Part of a team developing Aristotle, a large program analysis system for C and Java.
- Research in analysis of C source code for memory allocation: Developed an algorithm for computing dynamic points-to relations; Designed and implemented a system for white box testing (coverage analysis) and debugging using dynamic pointer relations.
- Research in methods for detecting memory leaks and memory access errors.

Education: The Ohio State University, Columbus, OH

- B.S. in Computer Science, June 2002 (3.41 GPA)
- Worked throughout college as a software engineer to pay for school.

Coursework:

Programming Languages, Artificial Intelligence, Networking, Object Oriented component design, Systems Programming, Computational Numerical Methods, Artificial Intelligence, C++, Lisp, and functional programming, Software Engineering, Software Design (spiral model, revision control, documentation, etc.)

Organizations, Activities & Interests:

- Active in development for free software systems such as Debian GNU/Linux and Haskell
- President and founder of the Ohio State Open Source Software Development club
- Member ACM, Debian Project
- Public speaking (Haskell Implementor's Meeting, Open Source Club)
- Member of development committee of local non-profit organization
- YMCA Computer Camp Counsellor, computer programming for children (Summers 97, 98, 99)
- Studying the viola in classical music performance (OSU Symphony Orchestra).
- Training horses in English show riding.

References: Available upon request.

See web site for more info: <http://www.syntaxpolice.org/~ijones>