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DAMON ANDREW BERRY

OBJECTIVE

A position involving Java/C++ Software Development.

SKILLS

Cross-Platform and Internationalized Software and API Development using: Java, C/C++, MS Developer Studio, MS DotNet, Sun NetBeans IDE, Eclipse, and IntelliJ.

Additional programming experience with:

Scheme, ML, Prolog, Smalltalk, R, Matlab, SPSS, Assemble (various), Basic, Pascal, Perl, modPerl, Python, Jython, HTML, CGI, DOM, XML, Make (various), CVS, TLIBB, TLM, SourceSafe, InstallShield, InstallAnywhere, MS Access, and MySQL.

Senior Consulting as to Java Language Dynamics, Best-Practices, Patterns, and Design.

Creation and Restructuring of Departmental and Inter-Departmental Standards and Practices for Software Development, Quality Assurance, and Release Engineering.

Code Review in support of Initial Release and/or Open-Sourcing of R&D level codebases.

PROFESSIONAL EXPERIENCE

2006 - Present Department of Mathematics, UMass Lowell Research Assistant, Teaching Assistant

Lowell, MA

Through a quirk of red-tape, I found the funding for my doctoral program (in computer science) via the math department. Thus I've been pulling double duty working for both math and cs.

- Design and implementation of algorithms and applications in support of mathematical theorems and models developed by the department's research professors.
- Leveraging these implementations to run experiments and gather data in areas such as Queuing Theory and Cancer Classification (in conjunction with Johns Hopkins) to support publication.
- Various standard TA duties, such as grading (pre-calc/calculus) and tutoring (all undergrad subjects).

2004 - 2008 Institute for Visualization and Perception Research Center for Biomolecular and Medical Informatics

Lowell, MA

Research Assistant, Teaching Assistant, Software Developer

IVPR and CBMI are research labs focusing on Interactive Visualization and Bioinformatics, sponsored by the Departments of Computer Science and BioInformatics at UMass Lowell.

- Senior Java Consultant regarding language dynamics, best-practices, patterns and design.
- Principle Server-side Architect and Developer of a web-based (GIS) visualization system.
- Research and Development on the UVP (Universal Visualization Platform), an interactive visualization application/framework/toolset developed by IVPR.
- Research and Development on TEASE (Text-Event Application Sessioning Environment), a nextgeneration replacement for the UVP, which I conceived of and designed as my first thesis topic.
- Research and Development, in conjunction with Mass General Hospital and IBM Research (Haifa), on Breast and Ovarian Cancer Risk Prediction Models and HL7 compliant Electronic Medical Records.
- Research and Development in the interactive visualization of novel clustering algorithms.

2003 - 2004 Centers for Learning and Academic Support Services

Lowell, MA

Tutor

CLASS provides free tutoring services to students at the University of Massachusetts, at Lowell.

■ Tutoring of Undergraduate and Graduate Students in Mathematics and Computer Science.

2002 - 2003 The Nahant Group

Nahant, MA

Independent Consultant and Co-Founder

The Nahant Group provided web-based solutions for Boston area non-profit organizations.

Creation of a Patient Interview/Tracking System using HTML, J2EE (Apache Servlets) and MySQL.

2001 - 2002 The Laboratory for Computer Science at MIT

Cambridge, MA

Member of Technical Staff

LCS (now CSAIL) hosts several research projects at the Massachusetts Institute of Technology.

- Development in Java and C++ (primarily on the client-side) on a Low-Bandwidth Search Engine.
- Creation in Win32 C++ of Registration (MFC) and eMail Transmission (MAPI) components.
- Creation in InstallAnywhere of the projects first deployable Alpha candidate.
- Team Lead in Project Review and Restructuring (code base, test plan, engineering protocols), facilitating Initial Release and Open-Sourcing of the project (see: http://tek.sourceforge.net).

2001 Dragon Systems/Lernout & Hauspie

Newton, MA

Interim Principal Release Engineer

Dragon Systems was a leading provider of Speech Recognition Technology.

- Interim Principal Release Engineering and Crisis Management for a former employer operating with minimal staff while being held in receivership and undergoing corporate restructuring.
- Release Engineering using TLIBB, TLM, gMake, nMake, pMake, Perl, Python, and FTP.
- Redesign of Departmental Standards and Practices appropriate for drastically reduced staffing levels.
- Liaison to Microsoft, with respect to MSDN subscriptions, licensing, and WinXP Beta program.
- Liaison to local (Burlington, MA) and international (Ukraine) subcontracted development groups.

2000 - 2001 Atabok

Newton, MA

Member of Technical Staff

Atabok is a provider of Secured Data Transfer and Digital Rights Management services.

- Creation of the Atabok Commerce Engine APIs (C\C++\COM\ISAPI\DCOM).
- Creation in C++ of Cross-Platform and Internationalized Objects (String, Date, Time).
- Creation in Win32 C++ of a COM-compliant Scheduler component (ala. Windows Task Manager).
- Creation of Departmental Standards and Practices for Software Development and Quality Assurance.
- Mentoring of junior developers and college interns.

2000 MCK Communications

Needham, MA

Junior Developer

MCK Communications is a provider of Telephony products and services.

- Development in Win32 C++ of TAPI\TSAPI components to interface with proprietary hardware.
- Research and experimentation with third-party telephony hardware.

1997 - 1999 Dragon Systems

Newton, MA

Release Engineer

Dragon Systems was a leading provider of Speech Recognition Technology.

- Maintaining the integrity of the code base, build process, and archive, for all major projects.
- Release Engineering using C++, Perl, Python, gMake, nMake, pMake, Timelock\Vbox, InstallShield, TLIBB\TLM, MS Developer Studio, MS Visual Source Safe.
- Secure Encapsulation of pre-existing products into Trial Editions using C++, Timelock, and Vbox.
- Mentored Research and Development in Win32 C++ of reusable software components.
- Consultant to Engineering on the development of a cross-platform and internationalized String library.

1997 SEVA Foundation

Berkeley, CA

Volunteer

SEVA Foundation provides sight restoration surgeries and health care in India, Nepal, and Tibet.

- Development in MS Access of Merchandising and Customer Relations Databases.
- Public Relations at public outreach and fundraising events.

1997 Mind-Control Software

Berkeley, CA

Level Designer

Mind-Control was one of the first startups to develop real-time multiplayer online computer games.

- Level Design of a three-quarter view real-time multiplayer online combat game ("Silencer").
- Game Design of massively multiplayer real-time online space exploration and fantasy games.
- Supervision of Art and Quality Assurance departments.
- Mentoring of junior developers and high school interns.

1991 –1996 The Princeton Review

Boston, MA. Berkeley, CA.

Site Director and Tutor

The Princeton Review is a leading provider of standardized test preparation services.

- Classroom Instruction and Private Tutoring of test preparation curricula (LSAT, GRE, SAT).
- Mentoring and Supervision of fellow instructors.
- Sales Presentations to potential clients (and their parents).
- Site Management.
- Teacher Training.

EDUCATION

2003 - Present University of Massachusetts at Lowell

Lowell, MA

Doctoral/Masters Student in Computer Science

- Cumulative GPA of 3.975 with 4 A+'s.
- Completed requirements for the Masters degree in Spring 2007 (haven't filed the paperwork yet).
- Passed "with flying colors" the Doctoral Qualifying Exams in Algorithms, Foundations, and Design of Programming Languages in my second year of the Masters program (2006).
- Teaching Assistant for the department of Mathematics (2006 present).
- Teaching Assistant for the department of Computer Science (2006).
- Research Assistant at the Institute for Visualization and Perception Research (IVPR) (2005 2008).
- Research Assistant at the Center for Biomolecular and Medical Informatics (CMBI) (2005 2008).
- Information Sciences, Engineering and Technologies (ISET) Research Scholar (2005 2007).
- Member of the Algorithms Research Group (2003 2005).
- Member of the Database Systems Research Group (2003 2005).
- President of the Human-Computer Interaction (HCI) club (2006 present).

- Senator of the Human-Computer Interaction (HCI) club (2005 2006).
- Member of the Data-Mining and Data Visualization club (2005 2006).
- Treasurer of the Scholar Association for Computing Machinery (SACM) club (2003).

2001 Massachusetts Institute of Technology

Cambridge, MA

Special Status Student

- Successful completion of the Laboratory in Software Engineering (Course 6.170) for Graduate credit.
- Obtained the professional and academic recommendations of the course professor (Daniel Jackson).

2001 Harvard Summer School

Cambridge, MA

Graduate Student

■ Successful completion of "Laboratory Electronics: Analog and Digital Circuit Design" (PHYS S123), an eight week intensive course covering a two semester sequence, for Graduate credit.

1989 - 1994 The University of California at Berkeley

Berkeley, CA

Undergraduate Student

■ Bachelor of Arts in Mathematics, 1994.

1986 - 1988 Newton South High School

Newton, MA

Work-Study Program Participant

- Successful completion of the Advanced Placement course in Computer Science during my Junior year, receiving full marks on the AP Exam in Pascal.
- Successful completion of a one-year paid internship with the computer department during my Senior year; responsibilities included lab supervision, systems programming (PDP-11), and mentoring.

REFERENCES

Stephen Pennell

stephen pennell@uml.edu

• Professor Pennell is the Mathematics Department Chair at UMass Lowell.

Lee Jones

lee jones@uml.edu

Professor Jones teaches courses related to Statistics at UMass Lowell.

Konstantin Rybnikov

konstantin rybnikov@uml.edu

■ Professor Rybnikov teaches courses related to Geometry at UMass Lowell.

Alexander Kheifets

alexander kheifets@uml.edu

Professor Kheifets teaches courses related to Analysis at UMass Lowell.

Giampiero Pecelli

giam@cs.uml.edu

Professor Pecelli teaches courses in Programming Languages (Scheme, ML, Prolog) at UMass Lowell.

Gary Livingston

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Professor Livingston teaches courses related to Machine Learning and AI at UMass Lowell.

Karen Daniels

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Professor Daniels teaches courses related to Algorithms at UMass Lowell.

George Grinstein

grinstein@cs.uml.edu

■ Professor Grinstein leads the IVPR and CBMI laboratories at UMass Lowell.

Alex Baumann

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Alex was my co-designer and co-developer on the Web-based GIS project at the IVPR.

Suzanne Gamache

suzanne gamache@uml.edu

• Suzanne runs the Centers for Learning and Academic Support Services.

Professor Daniel Jackson

dnj@mit.edu

• Professor Jackson teaches courses related to Software Engineering at MIT.

David Hegarty

david hegarty@yahoo.com

• David is a former partner from The Nahant Group, and former colleague from Atabok.

Alan Franke

Alan.Frankel@dictaphone.com

■ Alan is a former colleague and mentor from Dragon Systems.

Duffy O'Craven

duffy@alum.mit.edu

■ Duffy is a former mentor from Dragon Systems.

Liv Toftner

Elizabeth.Toftner@teradyne.com

■ Liv is a former manager from Dragon Systems.