

CHRISTOPHER M. GRZEGORCZYK

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Objective

To obtain a summer internship (part-time) developing in any of the following areas: garbage collectors/runtime systems, linux kernel, application specific system optimization and profiling, distributed/network/j2ee-enterprise applications, or type safe operating system implementations/extensions.

General

Birthdate 09/14/1981

Address 6575A Trigo Road, Goleta CA, 93117

Citizenship United States

Education

Ph.D.	University of California, Santa Barbara	Computer Science	In Progress
B.S.	California State University <i>Channel Islands, Camarillo CA</i>	Computer Science <i>magna cum laude, dept. honors</i>	June 2004
B.S.	California State University <i>Channel Islands, Camarillo CA</i>	Mathematics <i>magna cum laude</i> <i>emphasis: Biomathematics, Applied Physics, and Computer Science</i>	December 2004

Experience

University of California, Santa Barbara	August 2004-Present
<i>Teaching Assistant</i> <i>Santa Barbara, CA</i> <i>CS160</i> Fall 04/Fall 05/Winter 06* - Translation of Programming Languages (Compilers) <i>CS178</i> Spring 05 - Cryptography <i>CS50</i> Spring 05 - Lower Division Term Project (Software Engineering) <i>CS20</i> Winter 05 - Data Structures in Java *Outstanding TA Award	
Rieger & Milliken, Inc.	August 2003-Present
<i>Programmer/Consultant</i> <i>Camarillo, CA</i> <i>Java/DB</i> JDBC Driver level backup, mirroring, and failure detection <i>Distributed</i> Secure distributed electronic document collection w/ EJB driven service <i>Embedded</i> Linux for PC104 systems, serial protocols <i>DB</i> XSQL/Oracle/JBoss/Tomcat development	
CSU MediaLab	Aug. 2002-Dec. 2004
<i>Programmer</i> <i>Camarillo, CA</i> <i>Java/J2EE</i> Web Application development <i>Distributed</i> XML RPC Application server for thin clients <i>Multimedia</i> Design and development of streaming broadcast of video; RTSP	
Com-Search	June 2001-Aug 2001
<i>Programmer</i> <i>Warren, RI</i> <i>Java/J2EE</i> JSP/JDBC development w/ MySQL and Atunity databases.	
Labseek.com	June 2000-Feb 2001
<i>Consultant/Programmer/Sysadmin</i> <i>Minneapolis, MN</i> <i>DCOM/ASP</i> Implementing, maintaining web application	
AmerstCommon.com	Feb 2000-Jun 2000
<i>Consultant</i> <i>Amherst, MA</i> <i>Coldfusion</i> web applications w/ Coldfusion and verity	
Corning, Inc.	Summer 1999
<i>Programmer</i> <i>Boston, MA</i> <i>Java</i> Designed, implemented, software to analyze, format, and correct BLAST data	

Coursework

- 2004** Sparse Matrix Algorithms, Matrix Analysis
- 2005** Advanced Topics in Operating Systems, Java Centric Web Computing

Competitions, Awards

- Putnam** 2003 - Ranked in the top 15% in the nation
- ACM** 2003 - Team Captian
- IEEE** 2003 - 3rd place in Biotechnology Competition
- CSUPERB** 2003 - Image Analysis via Fractal Geometry
- CSUSRC** 2003/4 - Image Analysis using Fractal Dimension and Lacunarity
- MAA** 2004 - Medical Image Analysis using Fractal Dimension and Lacunarity

Related Work

Image/S	w/ Prof. G Dougherty at CSU Channel Islands	2003/4
	<ul style="list-style-type: none"> • Developed algorithms and software for image analysis • Particular focus on novel approaches based on fractal measures 	
Hookups		2002/4
	<ul style="list-style-type: none"> • Interactive web application for community, chat, and bulletin services • Novel interface design based on small world networks • XML RPC App Server and J2EE technologies 	
DAMN	w/ Prof. J Gilbert at UC Santa Barbara	2004/5
	<ul style="list-style-type: none"> • SEDA-based Distributed Inversion of Control container in Java • [A]synchronous parallel execution models 	
ripv	w/ Prof. J Gilbert at UC Santa Barbara	2005/6
	<ul style="list-style-type: none"> • Realtime Interactive Parallel visualization • Model for massively parallel/grid visualization • Novel metric for interactive visualization quality • Learning system for congestion avoidance • Extensions to MPI for feedback asynchronous sending • MPI development toolkit for implementing other applications • Conference paper in progress (est. Spring 06) • http://www.cs.ucsb.edu/~grze/ 	
DailyBlend	w/ Prof. T Sherwood at UC Santa Barbara	2006
	<ul style="list-style-type: none"> • OO Language, Compiler, and Simulator for teaching undergrad compilers • Configurable and extensible language • Template driven code generation for defining a language subset and auto generating: <ul style="list-style-type: none"> – Complete compiler and runtime – Abstract syntax tree packages – Restricted assignment versions of lexer, parser, type checker, and code generator – Language and toolset documentation • http://www.cs.ucsb.edu/~cs160/project/ 	

- Linux 2.6.13+/JikesRVM 2.4.4 instrumentation of memory management
- Profiling page fault and LRU paths across the canonical set of garbage collectors
- Analysis of heap sub-structure for objects residing on evicted pages

Miscellania

Languages Java, SQL, C, C++, and others

Tech EJB/CMP 2, JNDI, JAX, JSP/Servlets, JDBC, JNI, JINI, JAI, RMI, SOAP, JSA,MPI,UPC,OMP,xdoclet

OS Linux/BSD, Mac OS X & 9-, Windows, Solaris, IRIX

Platforms x86, PPC, m68k, Sparc, MIPS-Rxxxx

Databases Oracle 8/9, MySQL 3/4, Postgres, SQLite, MSSQL

Servers Apache 1/2, JBoss, Tomcat 4&5, postfix, qmail, NFS, NIS, CVS, BIND

Other grsecurity, FTP & HTTP(S) Protocols, RS-232 and UART 16550A, JPEG/GIF/PNG encoding, BLAST and Smith-Waterman algorithms