

Shengyin Gu

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Objective

Seeking an interesting and challenging software development internship.

Education

Ph.D., Computer Science
M.S. Computer Science
University of California Davis, Davis CA
Focus: computer visualization and bioinformatics

Expected graduation: 2010
Obtained: June 2008
GPA: 3.89

B.S., Computer Science & Economics
Rutgers University, New Brunswick, NJ

Graduated: 2003
GPA: 3.89

Computer Skills

Languages and Tools: JAVA, C++, Visual C++, VB, VBA, C, Matlab, Maya, QT, OpenGL, SQL, Eclipse, JDBC, ODBC, MySQL database, Oracle Database.
Operating Systems: Windows, Linux.

Employment

Platform Engineering Intern

Yahoo! Inc.

Summer 2008
Santa Clara, CA

- Designed visualization software for advertising data.
- Analyzed and researched new advertising algorithms.
- Worked with Java, Prefuse and Eclipse.

Graduate Student Researcher

Institute for Data Analysis and Visualization

Summer 2005 – Present
University of California, Davis

- Researched novel geometric algorithms to predict protein-protein docking sites and docking orientations.
- Created a novel geometric representation of protein sequences to provide domain information.
- Researched algorithms to analyze and restore symmetry, particularly for fossil retro-deformation.
- Worked with Java, JOGL, C++, Visual C++, OpenGL, QT and Eclipse.

Junior Research Specialist

Lawrence Berkeley National Laboratory

Winter 2006 – Spring 2007
Berkeley, CA

- Researched and implemented an interactive exploratory tool, named TreeQ-Vista, for displaying gene annotations in context of phylogeny.
- Worked with Java, Eclipse, JDBC and constructed SQL queries.

Teaching Assistant

Department of Computer Science

Fall 2004 – Spring 2005

University of California, Davis

- Held Discussion sessions and office hours for undergraduate course “Introduction to Programming and Problem Solving”.
- Taught C and UNIX commands.

Undergraduate Research Assistant

Graduate School of Education

Winter 2001 – Fall 2003

Rutgers University, NJ

- Designed algorithms for educational software.
- Developed and maintained software in VB and VBA.

Software Engineering Intern

Inetsoft Technology Inc.

Summer 2002

Piscataway, NJ

- Programmed using J2EE.
- Experienced Oracle, MySQL databases and constructed SQL queries.

Software Engineering Intern

Merck & Co., Inc., Automation & Informatics Group

Summer 2001

Rahway, NJ

- Designed and developed VB programs used to edit database entries.
- Experienced Oracle, MySQL databases and constructed SQL queries.

Publications

Gu, S., Poch, O., Hamann B., Koehl, P., A Geometric Representation of Protein Sequences, IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pp 135-142, 2007.

Gu, S., Anderson, I., Kunin, V., Cipriano, M.J., Minovitsky, S., Weber, G.H., Amenta, N., Hamann, B. and Dubchak, I.L. TreeQ-VISTA: An Interactive Tree Visualization Tool with Functional Annotation Query Capabilities, Bioinformatics 23(6), Oxford University Press, pp. 764-766, 2007.

Amenta, N., Kazhdan, M., Gu, S., Wiley, D., Motani, R., Hamann, B., Symmetry Restoration by stretching. (under revision)

Awards & Honors

2009 Google Workshop for Women Engineers

January 2009

Member of “The National Society of Collegiate Scholars”

Graduated with the Highest Honor from Rutgers University

Spring 2003

Graduated with the High Distinction Honor from computer science department Rutgers

Spring 2003

Winner of the “International Student Scholarship” Rutgers

2002-2003

Deans’ Award for Excellence

April 2001

Dean’s List (multiple)

1999 – 2003

References

Professor Nina Amenta

Institute of Data Analysis and Visualization, University of California, Davis

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