James "Augie" Hill
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Educational Experience

2003-2006   Southern Methodist University   Dallas, TX
S.B., Computer Engineering with a concentration in software and a minor in mathematics. Continued ice dance training and competition through January, 2006 before beginning again January, 2007.

2000-2003   Shepton High School ('00-'01)/Plano West Senior High School ('01-'03)   Plano, TX
Moved to Texas for ice dance training. Attended AP English (III and IV), AP Calculus, AP Computer Science, AP Political Science, and AP Macroeconomics classes.

1997-2000   Whitney M. Young Magnet High School   Chicago, IL
Attended for the accelerated middle school program for 7th and 8th grade, as well as for the first year of high school.

Publications

Falkner, Jayson A.; Hill, James A.; Andrews, Philip C. Proteomics FASTA Archive and Reference Resource. *Proteomics*. **2008**, 8(9), 1756-1757.

Hill, James; Smith, Bryan; Gjukich, Mark; Papoulias, Panagiotis G.; Falkner, Jayson; Andrews, Philip. (2009, June). ProteomeCommons.org Annotations and Project Management Resource. Poster presented at the 57th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics. Philadelphia, Pennsylvania.

Hill, J.A.; Smith, B.E.; Gjukich, M.; Andrews, P.C. (2009, September). ProteomeCommons.org Annotations and Project Management Resource. Poster presented at the 8th World Congress of the Human Proteome Organization. Toronto, Ontario, Canada.

Smith, B.; Hill, J.; Gjukich, M.; Andrews, P. (2009, September). Recent and Upcoming Developments in the Tranche Distributed Data Repository. Poster presented at the 8th World Congress of the Human Proteome Organization. Toronto, Ontario, Canada.

(Accepted) Smith, Bryan; Hill, James; Gjukich, Mark; Andrews, Philip. Tranche Distributed Repository and ProteomeCommons.org. Chapter from Data Mining in Proteomics: Methods in Molecular Biology. Humana Press, 2010.

(Submitted) Hill, James A.; Smith, Bryan E.; Papoulias, Panagiotis G.; Andrews, Philip C. ProteomeCommons.org Collaborative Annotation and Project Management Resource Integrated With the Tranche Repository. Journal of Proteome Research.

(In Progress) Hill, James A.; Smith, Bryan E.; Falkner, Jayson A.; Andrews, Philip C. (2009). Tranche: a Distributed Repository For Immutable Files. White paper.

Professional Experience

Applications Programmer Intermediate
Tranche Project, University of Michigan Biological Chemistry Department
February, 2007 – Present

The Tranche Project (TrancheProject.org) creates software with the primary purpose of aiding in the sharing of large amounts of data and the information about that data amongst scientific researchers. The primary software package is Tranche, a free and open source file storage and dissemination system that is decentralized, scalable, secure, and accountable. A secondary software package is a science community web site that promotes the sharing of ideas and data amongst proteomics researchers (ProteomeCommons.org). It is also meant to be a portal for using a Tranche repository.

Primary tasks:
- Work independently and with a small group to brainstorm ideas for moving forward, determining the optimal course of action, and implementing those ideas.
- Continue to develop, test, and document the core Tranche Distributed Repository code.
- Maintain a network of servers for the ProteomeCommons Tranche Repository.
- Develop a comprehensive user interface for the Tranche repository.
- Develop, test, and document ProteomeCommons.
- Contribute to the grant proposal processes.

Major accomplishments:
- Developed the graphical user interface.
- Created a software module and additional code in the ProteomeCommons IO-Framework that interfaces with the Tranche repository to easily reformat FASTA files. Published in Proteomics Volume 8, Issue 9.
- Made the repository code generic and easily configurable, making the code more easily usable by third parties.
- Developed the use of batch methods of sending and receiving many small transactions.
- Set up and maintained an Apple XServe web server running Tomcat, SSL, SVN, and MySQL for use by multiple web sites.
- Took the initiative to contact the Personal Genome Project (PersonalGenomes.org), who ended up using ProteomeCommons' Tranche Distributed Repository as a dissemination source of raw data sets.
- Recreated ProteomeCommons as a "science community" using principles of Web 2.0 social networking with Tranche as the data-sharing backbone.
- Lead the design and creation of the Tranche Annotations and its integration into ProteomeCommons.
- Integrated the ProteomeCommons Tranche Annotations database into the Cancer Biomedical Informatics Grid (caBIG) to allow for increased exposure of data sets stored on the ProteomeCommons Tranche Distributed Repository.
- Consultant for the Tranche Project portion of RTRN Biomedical & Informatics Technical Working Group.
- Redesigned the Tranche Distributed Repository structure and protocol for increased scalability and speed, then managed the seven-month implementation of that redesign (see Tranche white paper).
- Attended the 2009 Cancer Biomedical Informatics Grid (caBIG) annual meeting to learn more about how Tranche can be utilized within the system, then subsequently presented the proposal to the caBIG Architecture Workspace.

Freelance Developer
8/28 Productions (828productions.com)
March, 2003 – Present

Developed web applications for fun and to for the expanding of my skill set. Far more time was spent on fun applications than applications for profit. A portfolio of all work is available at 828productions.com.

Professional Ice Dance Instructor
2000 – Present

Teaching ice dance to advanced skaters and skating with them through proficiency tests.

Skate School Assistant, Skate Guard, Party Host, Skate School Coach, Professional Ice Skating Instructor
Ice Bound / Dr. Pepper Star Center, Plano (Plano, TX)
July, 2000 – December, 2006

Ice Bound was bought out by the Dallas Stars and renamed Dr. Pepper Star Center, Plano
Tasks for role as skate school assistant included setting up for classes and assisting with larger classes as needed.
Tasks for role as skate guard included handing out skates and monitoring the safety of the skaters on the ice.
Tasks for role as party coordinator included setting up for parties, serving food, helping kids on the ice, and cleaning up after parties.
Major task for role as skate school coach was teaching varying sizes groups of students varying in age and skill level in a structured class format.
Major task for role as professional ice skating instructor was teaching private lessons to individual students.

Activities/Interests

Competitive Ice Dancer 1997-2006, 2007-2008
10-time national competitor, 9-time international competitor
Year-round training regimen consisted of between 3 and 5 hours of on-ice training 5 days per week plus between 2 and 10 hours of off-ice training per week.

Cooking

Reading

DIY Robotics