Jamie Rasmussen

4936 Ellsworth Ave
Pittsburgh, PA 15213

jrasmuss@alum.mit.edu
http://jamierasmussen.com

U.S. Citizen

Employment

Uber Advanced Technologies Group, Senior Software Engineer
06/2015 - Present

Early hire of Uber's self-driving car program. Did full stack software development with a concentration on front end design and engineering. One of two original engineers for a system that gathers data labels from many human workers for training and evaluating machine learning algorithms. Became the technical lead for web-based autonomy map tools in March 2017. Supervised contractors, mentored junior engineers, and managed two summer interns. Conducted over two hundred technical interviews and was selected for Uber's interviewer "Bar Raiser" program.

IBM Research, Advisory Software Engineer
03/2007 - 06/2015

Core team member of the Center for Innovation in Visual Analytics, part of the Business Analytics and Mathematical Sciences group. Led user interface design and implementation for numerous research projects, including an employee social media analysis dashboard, a retention analytics platform, and an exploratory salesforce visualization. Contributing engineer to research prototypes in the domains of intelligence analysis, network security, and social networking. Several of my contributions are being productized by IBM's Software Group. Received an IBM Research Division Award for user interface contributions to a stream processing system. Authored technical reports, academic publications, patents, and grant applications. Gave frequent presentations to clients. Mentored graduate and undergraduate student interns. Promoted from Staff Software Engineer in June, 2008.

Epson Research & Development, Inc., Member of Technical Staff
09/2004 – 03/2007

Design and code for major portions of an innovative videoconferencing system used daily within Epson. Primarily responsible for the Windows client, a large, multithreaded, C++ application. Also worked on a Linux port, server improvements in C++ and Java, and research prototypes in a variety of languages. Principal author of a multi-year project proposal for the software group. Work led to five issued patents, in the areas of interactive user interfaces, audio delay profiling, and an application of sketch recognition.

Solitex Networks, Software Engineer
08/2003 – 09/2004

Design and code for a commercial SQL Server-backed website for interfacing with the Federal and State Do Not Call datasets. Custom-built account and user management and billing systems. Core development and extensions to the AOLserver platform including interfaces to POP3, MIME, and SMTP services.

Media Lab Europe, Research Fellow
08/2001 – 08/2003

Conducted research in novel learning technologies as part of the Everyday Learning Group. Projects included computational toys for exploring plant physiology, a wearable device for monitoring and simulating environmental tobacco smoke exposure, and a web-based environment for sharing multimedia learning objects. Responsible for frequent presentations to academic, corporate, and government audiences.

Education

Massachusetts Institute of Technology
09/1997 – 06/2001

B.S. in Mathematics with Computer Science

Technical Skills

I've designed and built software for the web, desktop, servers, and mobile devices. Recent experience with JavaScript/ECMAScript, Python, SQL, and HTML/CSS. Familiar with many modern web development libraries, tools, and platforms including React, babel, d3, Three.js, and AWS. Past experience with Java, C, C++, TCL, Ruby, C#, Perl, and more. Experience with data analysis and many kinds of analytics.

Extensive experience with many types of software, including IDEs, databases (MySQL, PostgreSQL, DB2, SQL Server), version control (git, Jazz, svn, cvs), installer development, raster and vector graphics packages, mathematical packages, internet applications, and office productivity suites.

Refereed Publications

Michele Berlingerio, Stefano Braghin, Francesco Calabrese, Cody Dunne, Yiannis Gkoufas, Mauro Martino, **Jamie C. Rasmussen**, and Steven Ross. S&P360: Multidimensional Perspective on Companies from Online Data Sources. In: Bifet A. et al. (eds) Machine Learning and Knowledge Discovery in Databases. ECML PKDD 2015. Lecture Notes in Computer Science, vol 9286. Springer, Cham.

N. Sadat Shami, Jiang Yang, Laura Panc, Casey Dugan, Tristan Ratchford, **Jamie C. Rasmussen**, Yannick Assogba, Tal Steier, Todd Soule, Stela Lupushor, Werner Geyer, Ido Guy, and Jonathan Ferrar. Understanding Employee Social Media Chatter with Enterprise Social Pulse. In the 17th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW). 2014.

Tak Yeon Lee, Casey Dugan, Werner Geyer, Tristan Ratchford, **Jamie C. Rasmussen**, N. Sadat Shami, and Stela Lupushor. Experiments on Motivational Feedback for Crowdsourced Workers. In Seventh International AAAI Conference on Weblogs and Social Media (ICWSM). 2013.

Kush Varshney, **Jamie C. Rasmussen**, Aleksandra Mojsilovic, Moninder Singh, and Joan Morris DiMicco. Interactive Visual Salesforce Analytics. International Conference on Information Systems (ICIS). 2012.

Kate Ehrlich, Susanna E. Kirk, John F. Patterson, **Jamie C. Rasmussen**, Steven I. Ross, and Daniel M. Gruen. Taking advice from intelligent systems: the double-edged sword of explanations. Proceedings of the 16th International Conference on Intelligent User Interfaces (IUI). 2011.

Jamie C. Rasmussen, Kate Ehrlich, Steven I. Ross, Susanna E. Kirk, Daniel M. Gruen, and John F. Patterson. Nimble Cybersecurity Incident Management through Visualization and Defensible Recommendations. In Proceedings of the Seventh International Symposium on Visualization for Cyber Security (VizSec). 2010. **Best Long Paper Award**

Susanne C. Hupfer, Steven I. Ross, **Jamie C. Rasmussen**, James E. Christensen, Stephen E. Levy, Daniel M. Gruen, and John F. Patterson. Crafting an environment for collaborative reasoning. In Proceedings of the 14th International Conference on Intelligent User Interfaces (IUI). 2009.

Daniel M. Gruen, **Jamie C. Rasmussen**, Jiahui Lui, Susanne C. Hupfer, and Steven I. Ross. Collaborative reasoning and collaborative ontology development in CRAFT. AAAI Spring Symposium on Semantic Web and Knowledge Engineering (SWKE). 2008.

Mauro Cherubini, **Jamie C. Rasmussen**, Hugh Gash, and Tom McCloughlin. Digital Seed: An interactive toy for children's explorations of plant growth and life cycles. Interaction Design and Children Workshop. 2002.

Jamie C. Rasmussen, Deirdre Butler, and Glorianna Davenport. A Web-based Environment for Assembling Multimedia Learning Stories in Irish Primary Education. In Proceedings, IEEE International Conference on Advanced Learning Technologies (ICALT). 2002.

Non-Refereed Publications

Salvador Ochoa, **Jamie C. Rasmussen**, Christine Robson, and Michael Salib. Reidentification of individuals in Chicago's homicide database: A technical and legal study. Massachusetts Institute of Technology. 2001.

Jamie C. Rasmussen, Steven I. Ross, Daniel M. Gruen, Susanne C. Hupfer, Stephen E. Levy, James E. Christensen, and John F. Patterson. Program Parameterization through Ontology-Based Models. IBM Research, Technical Report (Prior Art Disclosure). 2009.

Patents

James E. Christensen, Daniel M. Gruen, Susanne C. Hupfer, Stephen E. Levy, John F. Patterson, **Jamie C. Rasmussen**, and Steven I. Ross. System and method for ontology-based location of expertise. United States 8,255,380. Issued August 28, 2012.

James E. Christensen, Daniel M. Gruen, Susanne C. Hupfer, Stephen E. Levy, John F. Patterson, **Jamie C. Rasmussen**, and Steven I. Ross. Method and apparatus for semantic just-in-time information retrieval. United States 8,244,706. Issued August 14, 2012.

Victor Ivashin and **Jamie C. Rasmussen**. Efficient image annotation display and transmission. United States 8,099,662. Issued January 17, 2012.

Victor Ivashin, Steven Nelson, and **Jamie C. Rasmussen**. Delay profiling in a communication system. United States 7,908,147. Issued March 15, 2011.

Jamie C. Rasmussen and Victor Ivashin. Selection of regions within an image. United States 7,865,017. Issued January 4, 2011.

Victor Ivashin, **Jamie C. Rasmussen**, and Steven Nelson. Presenter view control system and method. United States 7,634,540. Issued December 15, 2009.

Victor Ivashin and **Jamie C. Rasmussen**. Viewport panning feedback system. United States 7,274,377. Issued September 25, 2007.

Reviewing

Information Visualization, 2010.

IEEE Software, Special Issue on Cooperative and Human Aspects of Software Engineering, 2009.

References Available Upon Request