

Gregory Hasseler

Software Engineer

Software engineer with six years Java programming experience, ten years Linux systems administration experience, and two years program management experience. Experience with Ruby on Rails based full stack development, Android mobile development, and data science.

Areas of Expertise

- Java
- Python
- Software debugging
- Linux systems administration
- Evaluation of new/emerging technologies
- Information management systems

Experience

2016–present **Software Engineer**, *Independent*.

- Designed and implemented title insurance request management software for a small law firm. Migrated legacy system based. [*Ruby on Rails*]

2012–present **Computer Scientist**, *Air Force Research Laboratory*, Rome, NY.

- Implemented and rigorously analyzed three state of the art subspace estimation and tracking algorithms (GROUSE, PETRELS, RankMin) for applicability to modeling Air Force Information Systems. Presented results to Scientific Advisory Board. [*Python, NumPy, Matplotlib, MongoDB*]
- Co-designed and implemented lightweight framework for building information management systems. [*Java, Mockito*]
- Designed and implemented prototype information management broker based on the LMAX Disruptor library for very fast message brokering (1M messages/s). [*Java*]
- Program manager for \$1.42M applied research contractual effort seeking to build a bidirectional tactical to enterprise gateway enabling beyond line of sight communications.

2010–2012 **Computer Scientist**, *ATC–NY*, Rome, NY.

- Performed as the technical lead for three contractual efforts with the Air Force Research Laboratory developing advanced information management system prototypes as part of a mixed contractor team. [*Java, Spring Framework*]
- Redesigned and reimplemented channel abstraction for moving information throughout an information management system. This work included a complete redesign of the threading and serialization models in use. [*Java, Spring Framework, Netty, Apache Thrift, Google Protocol Buffers*]
- Regularly debugged software defects, specializing in concurrency issues. [*Java, Spring Framework*]

2006-2010 **Assistant Systems Administrator**, *State University of New York Polytechnic Institute*, Utica, NY.

- Designed and implemented a low budget virtual desktop infrastructure system. [*Microsoft HyperV, PowerShell*]
- Co-designed and implemented a custom computer lab imaging solution for both Linux and Windows workstations. [*PXE, Linux, Windows, udpcast*]
- Responsible for all aspects of a thirty-two workstation Gentoo Linux lab. [*Linux*]
- Built prototype of a custom CUPS printer driving for printer quota enforcement and job logging/imaging. [*Linux, CUPS*]

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Professional Development

- 2016 **Data Science Bootcamp**, *The Data Science Dojo*.
- 2016 **Machine Learning: Clustering and Retrieval**, *University of Washington (Coursera)*.
- 2016 **Advanced Android**, *The Big Nerd Ranch*.
- 2015 **Android Essentials**, *The Big Nerd Ranch*.
- 2014 **Certified ScrumMaster**, *Scrum Alliance*.
- 2011 **Linux+ (Powered by LPI)**, *CompTIA*.

Education

- 2009–2010 **Master of Science, Computer Science**, *State University of New York Polytechnic Institute*, Utica, NY, *GPA: 3.67*.
Thesis *Adapting Stochastic Search for Real-time Dynamic Weighted Constraint Satisfaction*
- 2005–2008 **Bachelor of Science, Computer and Information Science**, *State University of New York Polytechnic Institute*, Utica, NY, *GPA: 3.76*.

Publications

- [1] Norm Ahmed et al. “Semantic modeling of analytic-based relationships with Direct Qualification”. In: *Semantic Computing (ICSC), 2015 IEEE International Conference on*. Feb. 2015, pp. 432–435. DOI: 10.1109/ICOSC.2015.7050845.
- [2] N. Ahmed et al. “Enabling semantic technologies in publish and subscribe middleware”. In: *Semantic Computing (ICSC), 2015 IEEE International Conference on*. Feb. 2015, pp. 338–343. DOI: 10.1109/ICOSC.2015.7050831.
- [3] Jason Bryant, Matthew Paulini, and Gregory Hasseler. “Successful Adaption of Information Management through Behavioral Isomorphisms”. In: *20th International Command and Control Research and Technology Symposium*. 2015.
- [4] Jason Bryant et al. “On Establishing Behaviorally Adoptive Semantic Narratives”. In: *SEMAPRO 2015, The Ninth International Conference on Advances in Semantic Processing*. 2015.
- [5] Jason Bryant et al. “Enhancing Information Awareness Through Directed Qualification of Semantic Relevancy Scoring Operations”. In: *19th International Command and Control Research and Technology Symposium*. 2014.
- [6] Jason Bryant et al. “Semantic Information Management Control of Mission Asset State Changes”. In: *19th International Command and Control Research and Technology Symposium*. 2014.