

Gregory E. Hasseler

Sr. Principal Software Engineer

Technical leader with over thirteen years of professional Java and Kotlin development experience, a strong Linux background, and a demonstrated ability to work up and down the stack to build new operational capabilities. Over six years of experience working remotely while leading distributed teams on a variety of multi-million dollar efforts.

▬ Areas of Expertise

- Java
- Kotlin
- Android
- Docker
- Node.js
- Python
- Linux
- C#
- Scrum

▬ Experience

- 2017–present **Sr. Principal Software Engineer**, *PAR Government Systems Corporation*, Remote
 - Helps strategize and execute disparate contractual efforts across the organization towards cohesive capabilities for Team Awareness Kit (TAK) software to maximize benefit to operational end users
 - Manages a Government defense portfolio worth approximately \$3M
 - Provides technical direction and mentorship to a distributed 6–8 member development team, including system architecture and design, technology stack selection, and code review [*Scrum*]
 - Works closely with Government defense customers and their Subject Matter Experts to capture and translate urgent operational requirements into software capabilities that are typically focused on mobile, tactical, and austere deployment environments [*Java, Kotlin, Android, C#, Node.js, Docker*]
 - Core contributor to the Android Team Awareness Kit (ATAK) and TAK Suite of applications, which have an install base of over 788K
- 2016–2017 **Software Engineer**, *Independent*
 - Rapidly designed and implemented a prototype title insurance request management system for a small law firm [*Ruby on Rails*]
- 2012–2016 **Computer Scientist**, *Air Force Research Laboratory*, Rome, NY
 - Researched and investigated information management technologies and applications
 - 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, JUnit, Mockito*]
 - Program manager for \$1.42M applied research contractual effort seeking to build a bi-directional tactical to enterprise gateway enabling beyond line of sight communications
- 2010–2012 **Computer Scientist**, *ATC–NY*, Rome, NY
 - Served as the technical lead for three contractual efforts with the Air Force Research Laboratory
 - Developed advanced information management system prototypes as part of a mixed contractor team [*Java, JUnit, Spring Framework, Netty, Apache Thrift*]

- 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*]
 - Developed a prototype custom Common Unix Printing System (CUPS) printer driving for printer quota enforcement and job logging/imaging [*Linux, CUPS*]

Professional Development

- 2016 **Data Science Bootcamp**, *The Data Science Dojo*
- 2016 **Machine Learning: Clustering and Retrieval**, *University of Washington (Coursera)*
- 2014 **Certified ScrumMaster**, *Scrum Alliance*
- 2011 **Linux+ (Powered by LPI)**, *CompTIA*
- 2011 **Security+**, *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] Noor Ahmed and Gregory Hasseler. “On the Practicality of Subspace Tracking in Information Systems”. In: Apr. 2019, pp. 791–800. ISBN: 978-3-030-16180-4. DOI: 10.1007/978-3-030-16181-1_74.
- [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] 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.
- [4] 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.
- [5] Jason Bryant et al. “On Establishing Behaviorally Adoptive Semantic Narratives”. In: *SEMAPRO 2015, The Ninth International Conference on Advances in Semantic Processing*. 2015.
- [6] 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.
- [7] Jason Bryant et al. “Semantic Information Management Control of Mission Asset State Changes”. In: *19th International Command and Control Research and Technology Symposium*. 2014.