GEORGE ENGELBRECHT
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– Objective –

**Solidify your processes and product using my unique
perspectives on improving scale, efficiency, and customer experiences.**

EXPERIENCE

Amazon Web Services – S3
Senior member of the Storage Engine's Platform team. Responsibillities include new product introduction, load testing and qualification of S3's block level hardware, systematic performance regression mitigation and inclusion of hardware-specific features and improvements to the lowest level storage service. Highlights include writing a distributed, quorum-based network liveness microservice and implementing protocol level priority IO tagging. Oncall rotations and operational execution for S3's block layer in all AWS regions.

U.S. Department of Commerce – Institute for Telecommunication Sciences
Software lead on a signal propagation API: the "Propagation Modeling Website," in use by the Joint Warfare Analysis Center, First IO Command of the Army, the NSA, and the National Weather Service. PMW utilizes a multiprocessing service architecture to schedule thousands of signal propagation simulations. Coordination of a full-time team of five-plus engineers: programming, code reviews, scrum\agile methods, and sponsor communication. Led a team of contributors on behalf of the US delegation to the International Telecommunications Union in Geneva, Switzerland. Obtained and maintained a security clearance.

SKILLS

Programming Languages
Currently operating primarily in Java, Python, and Shell Scripting, with broad exposure to many others. Skill with data structures, algorithms, Big-O notation, BNF forms, regular expressions, compilers, and parsing. These fundamentals allow me to quickly understand and become proficient in new languages.

Computer Engineering
Background in operating systems and hardware\software interfaces with experience in performance analysis both at scale and single host.

I've lived and breathed GNU\Linux in both personal and professional endeavors for ten years. Experience across that gamut including file systems, RAID, kernel configuration and compilation, security, profiling, scripting, daemons, etc.

Miscellaneous and Personal Interests
Numerical analysis, cryptography, chaotic dynamics, and electronics. I'm an enthusiastic but medicore soccer player and a German language learner who watches chemistry videos while I walk the dog. When I have time to tinker, it's Software Defined Radio, dirtbikes, and fermented food.

PREVIOUS EMPLOYMENT

Systems Development Engineer	Computer Engineer
S3 – Storage Platform	U.S. Department of Commerce
Amazon Web Services	Institute for Telecommunication Sciences
Seattle, WA	Boulder, CO
2016-Current	2008 to 2016

EDUCATION
University of Colorado at Boulder
B.S. Computer Science, 2009