

Ahmed Al-Sudani

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Strengths

- Adaptable systems engineer who quickly adjusts to new technologies and environments
 - At home in any *nix environment, particularly Linux
 - Up to date with the state of the art in information security
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Experience

- **NVIDIA Corp.** **Champaign, IL (Remote)**
Software Engineer — Primarily C/C++ on Datacenter Monitoring team *Jun. 2019 — Present*
 - Designed, implemented the latest GPU monitoring features for NVML and NVSMI
 - Overhauled diagnostic configuration for DCGM (Datacenter GPU Manager)
 - Modernized DCGM logging infrastructure to enable log redirection and output streams
 - Validated new hardware monitoring from emulation phase through silicon
 - Ported DCGM testing framework and bindings from Python2 to Python3
 - Scoped the effort and risk for open sourcing DCGM
 - Assessed severity of incoming bugs and improved code hygiene as DCGM security lead
 - Tracked code quality through static analysis and test coverage reporting
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Internships

- **NVIDIA Corp.** **Champaign, IL**
Software Engineering Intern — Datacenter Monitoring *Apr. 2018 — Aug. 2018*
 - Added handler for transferring diagnostic configuration file over RPC
 - Defined GPU targets for the DCGM diagnostic tool
 - Integrated DCGM bindings with Telegraf, Fluentd while maximizing code sharing
 - Containerized DCGM for Docker environments
 - **Yelp, Inc.** **San Francisco, CA**
Software Engineering Intern — Ad Backend *Aug. 2017 — Dec. 2017*
 - Matched ad interaction data to user data using a MapReduce pipeline
 - Migrated features from company's monolith to team's microservices
 - **Rise Vision** **Toronto, ON (Remote)**
Software Engineering Intern *Jan. 2016 — Dec. 2016*
 - Reduced BigQuery costs by 95%+ through a caching mechanism
 - Used strace (syscall trace) to root cause a bug that impacted field reliability
 - **Rangle.io** **Toronto, ON**
Full-stack Development Intern *May 2015 — Aug. 2015*
 - Maintained and integrated internal projects with client projects
 - Stepped in when our CTO lost his voice and delivered a talk on a testing library
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Education

- **University of Waterloo** **Waterloo, ON**
Bachelors of Computer Science, Honours Computer Science with co-op *2012 — 2019*
- **Port Credit Secondary School** **Mississauga, ON**
Ontario Secondary School Diploma *2009 — 2012*