

Jesse D Waite

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Professional engineer with comprehensive domain expertise in MLOps, DevSecOps, power systems, and language intelligence. In-depth technical experience with CNCF technology, air-gapped deployments, cyber intelligence domains, workflow languages, and development opsec.

EXPERIENCE

- Software Engineer** *PNNL National Security Division, Special Projects* Feb. 2023 – Present
- Developed mission-critical RKE2 deployment, increasing team velocity
 - Developed and deployed monitoring apis and services to AWS government segments
 - Specified and implemented analytics services and gitlab build infrastructure for defense sponsors
- Software Engineer** *Schweitzer Engineering Laboratories* Oct. 2018 – Apr 2022
- Delivered multiple microservices for the Synchrowave power system big data platform
 - Planned and executed live training demos for sales presentations and customer on-boarding
 - Built Parquet parsers and MLOps tooling for DOE sponsored power system data research
- Power System Security Researcher** *Washington State University* Jun. 2018 – Oct. 2018
- Derived Markovian attack observability models based on MITRE ATT&CK
 - Delivered ELK analytics solution, salvaging university project funding
- Software Developer** *Washington State University* Apr. 2017 – Jun. 2017
- Deployed sensor analytics platforms for the WSU Urbanova smart city project
- Associate Software Engineer** *Schweitzer Engineering Laboratories R&D* Mar. 2015 – Dec. 2015
- Built CI system in Python, IEC61131-ST, and C#, automating hybrid firmware/software development
 - Implemented C# command line interface into AcSELERator RTAC
- Software Engineering Intern** *Schweitzer Engineering Laboratories R&D* Jun. 2012 – Jan. 2015
- Publicly released 311C-x 103 protective relay settings configuration driver
 - Developed driver code reversal tool to automate large sets of manual tests

EDUCATION

- M.S. Computer Science** *Summa Cum Laude, Washington State University* 2018
- Thesis in process modeling and anomaly detection using graph compression and Bayesian modeling
 - Primary coursework in machine learning, structured prediction, reinforcement learning, network science
 - SME developer of large-scale language analyses for intelligence applications
- B.S. Computer Science** *Summa Cum Laude, Washington State University* 2014
- Recipient of merit scholarships and NSF research grant for language prediction on AAC devices
 - Emphasis in computer engineering and artificial intelligence
 - Multiple independent projects with SOLR, FreeRTOS, robotic control, wireless network programming, and MCU protocol driver implementations (I2C, SPI, and serial/UART)

PROJECTS AND SERVICE

- Volunteer youth code tutor and mentor
- Developer of Devster, a Golang workflow execution language for CNCF containers
- Author of Channerics generic channel library for Golang 1.18+
- Developer of SLIDE fast-inference structured prediction methods for eye-tracking based AAC devices
- Developer of open-source sequential prediction libraries in C++, Python
- CHEETAH author, polyglot neural language analyzer identifying cyber malinformation APTs