Tiger Schueler

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EDUCATION

University of Washington Tacoma Tacoma, WA
Bachelor of Science in Computer Science & Systems, Minor in Mathematics GPA: 3.6 *Aug. 2025*
- CeDiploma: 25C9-NTAN-TNRJ

TECHNICAL SKILLS

Languages: Java, Python, SQL
Developer Tools: Git, Linux/Bash, PostgreSQL, Microsoft SQL Server, JUnit, Claude Code, Cursor
Security Clearance: Secret clearance (current, eligible for reactivation)

PROJECTS

SHA3-SHAKE Cryptographic Library | *Java*
- Implemented SHA-3 hash functions and SHAKE algorithms from scratch following FIPS 202 specification with optimized Keccak-f[1600] permutation.
- Built comprehensive cryptographic toolkit with CLI interface supporting file hashing, MAC generation, and SHAKE-128 encryption/decryption.
- Developed robust testing suite with NIST test vectors, edge case validation, and performance benchmarking.

j– Compiler Extension | *Java*
- Extended Scanner to support multi-line comments, Java operators, reserved words, and numeric literals (double, float, long, hex, octal).
- Enhanced Parser with grammar rules and AST node support for Java constructs including conditional expressions, loops, and exception handling.

Markov Chain System Analysis | *Python, NumPy, PyAmaze*
- Implemented probabilistic models for analyzing system state transitions and computing steady-state distributions using power iteration algorithms.
- Developed performance optimization algorithms with matrix computations for large-scale system reliability analysis and convergence behavior.

Naive Bayes Sentiment Classification System | *Python, NLTK, pandas*
- Implemented complete NLP pipeline with NLTK tokenization, stopword removal, and Porter stemming for movie review sentiment analysis.
- Built statistical classifier using maximum likelihood estimation with Laplace smoothing and comprehensive error analysis framework.

EXPERIENCE

Sailor Dec. 2018 – Dec. 2022
United States Navy *Bremerton, WA*
- Served as Mount Captain for .50 caliber gun crew of 3-4 personnel, directing target identification and engagement including live FIAC intercept.
- Executed weekly weapons maintenance procedures and 3M system documentation with zero mission failures.
- Trained in Tactical Combat Casualty Care (TCCC) for gun mount team medical response.
- Qualified in aviation ordnance handling including bombs, missiles, and rocket pods for carrier aircraft.
- Completed Naval Special Warfare preparatory training; qualified in water survival, lifesaving, and team-based operations.
- Served on Damage Control Training Team, responding to shipboard emergencies including fires and flooding.

Lead Instructor Mar. 2023 – May 2025
Mathnasium *Bonney Lake, Tacoma, & Lakewood, WA*
- Served as acting Center Director, managing daily operations including opening/closing and staff coordination.
- Trained and mentored new instructors on teaching methodology and center procedures.
- Conducted diagnostic assessments for prospective students and presented program recommendations to parents.
- Delivered personalized K-12 math instruction targeting individual learning gaps.