

Tristan Santor

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EDUCATION

University of Washington

Dec 2026

Bachelor of Science in Computer Science - Information And Cybersecurity (GPA: 3.57) | Dean's List

Relevant Coursework: Information Assurance and Cybersecurity, Network Programming, Operating Systems, Databases and Data Modeling, Software Engineering, Hardware/Software Interface, Data Structures and Algorithms

Leadership: Co-Captain, UW Club Volleyball: nationals qualifier every season | Events Coordinator, FASA: organized events for 100+ members | Facilitator, UNITE UW: led small-group discussions for 80+ participants

EXPERIENCE

Undergraduate Teaching Assistant - UW

Jan 2026 - Present

- Designed autograder test cases verifying inheritance and exception-handling requirements across 150+ Java submissions
- Mentored 50+ students weekly on systematic debugging and root-cause analysis for programming assignments
- Reviewed student code against course design and style standards, giving written feedback on design patterns, readability, and maintainability

Software Engineer - QRuSafe

Jan 2025 - March 2025

- Developed QRuSafe web application using JavaScript to scan QR codes and validate URLs against Google Safe Browsing and VirusTotal threat databases
- Implemented a preview system that warned users of malicious links before navigation, achieving 99% detection on test phishing URLs
- Led campus phishing awareness study with 110+ participants, informing student security training and demonstrating real-world threat detection

Software Engineering Fellow – Headstarter AI

Jun 2024 – Sep 2024

- Built an LLM-powered flashcard generator on a Node.js backend, integrating the Groq API and handling prompt input, API calls, and structured JSON output across weekly agile sprints with 2 teammates .
- Proposed and built a mock UI to test the backend independently, keeping development unblocked while frontend work stalled
- Integrated Stripe payments and Clerk authentication for user accounts and subscriptions

PROJECTS

PrivacyLens | Python, Playwright, FastAPI, React, PostgreSQL

July 2026 - Present

- Designing and building a full-stack web auditing platform end-to-end: async Playwright scanning engine, FastAPI REST API, PostgreSQL storage, and a React/TypeScript dashboard
- Engineered async network interception to capture cookie, TLS, and third-party request data per domain, scanning 100+ high-traffic sites and classifying requests by registrable domain
- Built a dashboard that categorizes findings across four detection categories, with a debug view for verifying scanner output

Transit Edge - OSS4AI Hackathon

May 2025

- Owned the transit ETA feature end-to-end: built the GTFS coordinate pipeline, integrated Azure Maps Route Directions for travel-time baselines, and blended it with live traffic data to produce optimized ETAs
- Cached and auto-refreshed route data to keep the API responsive under repeated requests without re-parsing source data
- Wrote a 6-case pytest suite covering coordinate retrieval, error handling, and end-to-end ETA flow, and containerized the service with Docker

Keyboard Part Picker | JavaScript, PostgreSQL, Puppeteer, Debian

Dec 2024 - Present

- Automated test pipelines with Puppeteer web scraper to validate data aggregation from 20+ vendors, parsing into JSON for PostgreSQL quality checks and real-time analytics
- Optimized PostgreSQL queries and maintained the Debian-hosted backend powering cross-vendor product comparison
- Managed backend data processing pipelines supporting query optimization and product comparison features for keyboard enthusiasts

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, C++, SQL

AI & Dev Tools: Claude Code / ChatGPT, Git/CICD, Docker, pytest

Frameworks & Databases: React, Node.js, FastAPI, PostgreSQL, Playwright, Puppeteer