Nye Tenerelli

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EDUCATION

Grinnell College - B.S. in Computer Science — Expected May 2027

Relevant Coursework: Data Structures & Algorithms (Java), Operating Systems & Parallel Algorithms (C), Discrete Structures, Calculus I–III (Multivariable), Statistics

Supplementary Coursework: Dual Enrollment, Central Washington University (CWU) - While in high school, completed two years of college-level courses including Computer Science, Mathematics, and Economics (2021-23).

- Harvard Summer School - Computer Science and Environmental Science (2022).

TECHNICAL SKILLS

Languages & Tools: Java, Python, C, SQL, Git / GitHub, IntelliJ IDEA, VS Code, JavaFX, Excel (Pivot Tables, Regression), MATLAB

Core Concepts: Object-Oriented Programming, Data Structures & Algorithms, Algorithm Design & Optimization (Big-O, Recursion), Database Design (SQL Schema), JSON Parsing & Serialization, Software Testing (JUnit), Version Control & Collaboration, Debugging & Code Review, Statistical Modeling

PROJECTS

Volleyball Statistics Tracker (Java, JavaFX, SQL, Excel, JUnit) - Personal Project — Ongoing

- Built a desktop application to record live volleyball match data and generate team and player analytics across multiple performance metrics.
- Designed and implemented relational SQL database schema; tested with sample matches and 100+ player-stat entries.
- Developed team-creation and stat-tracking modules with Excel export for data analysis using Apache POI.
- Implemented JUnit tests verifying statistical calculations and data-integrity logic.
- Optimized update routines to improve query efficiency and real-time responsiveness.

Solar Activity Visualizer, NASA Space Apps Challenge (Java, JavaFX, SQL) - Hackathon Project — October 2025

- Led team development of an interactive visualization app using NASA open data on solar flares and coronal ejections.
- Implemented core logic, visualization modules, and local SQL integration for real-time analysis.
- Collaborated on UI/UX design and project presentation; delivered a functional prototype within 36 hours.

Blockchain Simulation (Java) - Grinnell College Project — February 2024

- Implemented a simplified blockchain model simulating multiple blocks and transactions to demonstrate hashing, validation, and immutability.
- Applied distributed-system principles and object-oriented design to illustrate data integrity across the chain.

JSON Parser/Serializer (Java) - Grinnell College Project — April 2024

- Built a recursive-descent JSON parser and serializer with object validation and error handling.

LEADERSHIP AND PROFESSIONAL CONFERENCE PRESENTATIONS

Teen Mentors Leader - Kittitas County Robotics 4-H — 2020–2023

- Directed a mentor team supporting 24 youth in robotics and STEM design challenges.
- Secured $3K in funding and guided teams to regional competition wins.

Pacific Northwest Regional Economics Conference (PNREC) — May 2022

- Presented two research projects to Ph.D. economists, state administrators, and policymakers.
- Macroeconomic Outlook & Stock Market Valuation: Analyzed macro indicators and stock market valuation metrics.
- University Investment Policy Analysis: Analyzed and presented survey results from 35 colleges using Excel tabulation.

HONORS AND AWARDS

- Eagle Scout, Boy Scouts of America (2023)
- Presented DCF stock-valuation model at SOURCE undergrad Symposium (2022) while dual-enrolled at CWU.
- Harry Hopkins 1912 Grant, Founder’s Scholarship (Both Grinnell College, 2023-2027)