

Cody Kesselring

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Education

Bachelor of Science in Computer Science

Expected Graduation Date: May 2026

Minor in Mathematics

Gonzaga University, Spokane, WA

GPA 3.66 | President's List Fall 2022 | Dean's list 2022 - present | Computer Science Club, Ski Club, GU Business + Tech

Courses | Computer Science I, Computer Science II, Data Science [09/22 - 05/23]

Algorithms and Data Structures, Software Dev, Computer Organization

Cybersecurity, Organization of Program Langs, Applied Linear Algebra [09/23 - 05/24]

Database Management Systems, Operating Systems [09/24 - 12/24]

Computer Security, Linux & DevOps, Calculus III [01/25 - 05/25]

Ordinary Differential Equations, Machine Learning, Theory of Computation,

Data Science Algorithms, Software Engineering [09/25 - present]

Technical Skills

Java C++ Python OOP Angular/JS Spring ADO MYSQL Git Kafka Linux Junit IntelliJ PostgreSQL

Computer Science Experience

Expeditors International Software Developer Intern

- Developed and deployed production-ready tax invoice reporting integration for a Fortune 500 logistics company processing 200,000+ daily transactions, enabling compliance in countries with strict invoicing regulations.
- Performed as a part of a lean AGILE scrum team of 12, utilizing Test Driven Development.
- Built full-stack solution using Java Spring backend, Angular frontend, and Kafka event streaming to integrate with existing global reporting infrastructure.
- Implemented Axon framework for CQRS/event sourcing architecture, ensuring data consistency across distributed microservices.
- Configured database interactions and API endpoints to handle real-time tax calculation and invoice generation workflows.

MyPL Language Interpreter

- Used python to create an interpreter for a personal java-like language called 'MyPL'
- Built a complete compilation pipeline, including a lexer, parser, semantic checker, code generator, and virtual machine to support MyPL's execution.
- Developed an opcode-based code generator that translates high-level language into low-level using a stack paradigm.
- Extensive test driven development.

Public Metro Card Management Database

- Designed and implemented a comprehensive relational database system for metro card management with interconnected tables for clients, zone pricing, discounts, card types, and usage tracking.
- Developed automated SQL triggers to handle complex business logic including age calculations, expiration updates, balance deductions, and discount applications.
- Ensured data integrity and system reliability through cascaded updates/deletes, card activation rules, recharge limits, and balance validation constraints.

Additional Experience

- Demonstrated customer service serving and taking orders from 400+ people a day at Deckhand Dave's Fish Tacos in Juneau, AK. [05/23 - 08/23] [05/24 - 08/24]
- Coordinated loading and trans-shipping of freight with longshoremen; handled and advised the ships regarding US customs paperwork and requirements as a cruise ship agent. [05/22 - 08/22]