

Denny Xie

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TECHNICAL SKILLS

- Programming Languages: Python, Java, JavaScript, TypeScript, SQL
- Core Computer Science: Object-Oriented Programming (OOP), Data Structures & Algorithms, Software Design Patterns, Machine learning
- Backend & Databases: Node.js, RESTful APIs, Oracle Database, MongoDB (familiar), Relational Database
- AI & Data: Applied Machine Learning, Data Analysis, AI-ready System Design
- Development Practices: Unit Testing (Black-box & Glass-box), Agile/Scrum, SDLC, CI/CD fundamentals

EDUCATION

Bachelor of Commerce, UBC Sauder School of Business, Vancouver, BC Expected Completion: May 2028

- Specialization: BUCS (Business and Computer Science)
- Key Courses: Applied Machine Learning, Software Engineering, Intermediate Algorithms, Relational Database Design, Data Telecommunications

WORK EXPERIENCE

ShanDong ZhongCheng Investment Management Ltd. May 2023 - Aug 2023
Investment Analysis Intern

- Conducted comprehensive status analyses of 5+ corporate investment projects, supporting strategic decision-making and project optimization.
- Performed investment cost estimations and ROI analyses, improving forecast accuracy by approximately 15% through iterative scenario modeling.
- Collaborated with cross-functional teams of 6–8 members, maintaining high performance standards and incorporating feedback to enhance deliverable quality.

PROJECT EXPERIENCE

UBC Course Database Management Project - UBC, Vancouver, BC Sept 2025- Dec 2025
AI-Ready Software Systems & Engineering Foundations

- Built a modular backend system to validate, transform, and structure heterogeneous datasets into queryable formats
- Designed automated black-box and glass-box test suites to ensure pipeline reliability
- Applied security modeling and data validation techniques aligned with production SaaS environments
- Documented system architecture and edge cases for team maintainability

Restaurant Supply Chain & Review Management System - UBC, Vancouver, BC Jan 2025-May 2025
JavaScript / SQL / Oracle DB

- Designed and implemented a 15+ entity normalized relational database schema
- Loaded and validated realistic sample datasets (1,000+ rows) and optimized query performance through indexing and schema refinement, reducing average query latency by ~30%
- Collaborated in a 4-person Agile team, iterating on schema design across multiple milestones (ERD → RS → SQL implementation)

Machine Learning & Predictive Modeling Projects - UBC, Vancouver, BC Dec 2025- Feb 2026
Python | Statistical Modeling | Real-World Data

- Built modular ML workflows for structured datasets, integrating preprocessing, feature transformation, model training, validation, and evaluation.
- Implemented multiple learning approaches across classification and regression problems
- Designed cross-validation frameworks and systematic hyperparameter tuning processes to ensure reliable model selection