

Nicolas Van der Werf

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EDUCATION

Westminster University | Salt Lake City, Utah | Graduation May 2025

Bachelor of Science in Computer Science | Minor in Applied Mathematics | GPA: 4.0/4.0

Dean's List | Alpha Chi National Honor Society

TECHNICAL AND SOFT SKILLS

- **Program Languages:** Python, Java, JS, TS, SQL, Apex, C, HTML, CSS
- **Technical:** Software Development, Database Design, Data Analysis, Web Scraping and Automated Testing
- **Soft Skills:** Team Cross Functional Collaboration, Leadership, Ingenuity, Creative Problem Solving and Initiative

EXPERIENCE

Bleu World | Software Engineer | Non-Profit | Remote | 2024

- Developed a full-stack web application to collect, analyze, and visualize community-collected ocean data, supporting ocean research and accelerating external team projects
- Deno 2.0, Fresh (Preact), PostgreSQL, SupaBase, Python

1440.io | Software Engineer Intern | Park City, UT | 2021-2023

- Led a team of 5 interns to design and develop 1440's brand new product Messaging Studio, securing a contract with Salesforce by transitioning customer service to messaging and reducing call volume by 30%
- Used Agile Methodology and developed automated testing to iterate quickly while maintaining uptime
- Collaborated with Google and Facebook to develop their messaging API's
- Java, Apex, Kafka, SQL, NoSQL, Salesforce Integration

SeaTrekBVI | NAUI Divemaster | Captain in Training | British Virgin Islands | 2016 - 2020

- Certified NAUI Divemaster, instructed students in marine biology, sailing, and scuba diving, fostering a safe and engaging learning environment
- Trained new employees in leadership, team collaboration, safety, and communication skills essential in dynamic maritime environments

PROJECTS

Application of Machine Learning to Financial Data | Research | Senior Capstone | Current

- Developing a framework and custom Gymnasium environment for live trading, live testing, and backtesting trading strategies using collected tick-level crypto data
- Researching and evaluating performance of Random Forest, LSTM, HMM, Transformer, and Decision Transformer models within a live trading environment
- Python, PyTorch, Pandas, Dash, Lightweight Charts, Websockets, PostgreSQL + TimeScaleDB

Jungle Jump | Software Engineering | 2024

- Lead a team to develop a web-based multiplayer game reinforcing math skills for elementary students
- Deno 2.0, Fresh (Preact), NoSQL Database, Agile Methodology, Typescript

Ski Resort Route Finding Application | Data Structures and Algorithms | 2023

- Built an application to identify optimal ski routes across a resort while considering skier ability, reducing time on lifts by up to 50%
- Recognized as the top project and invited to present to Alumni and visiting Computer Science Professors
- Java, Custom KD-Tree and Graph data structures, modified A* pathfinding