Jude Sproul

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EDUCATION

Computer Science | Master's degree
North Carolina State University
📅 08/2023 – present 📍 RALEIGH, UNITED STATES

- Currently enrolled in the ABM Computer Science Program at NC State, set to graduate in May 2025.

Computer Science | Bachelor's degree
North Carolina State University
📅 08/2021 – 05/2024 📍 RALEIGH, UNITED STATES

- Achieved a GPA of 3.949
- Co-founded and served as Vice-President of the Surf Club at NC State

SKILLS

Programming Languages: Java, Python, C, C++, Julia, JavaScript
Web Development: HTML, CSS, React, Bootstrap, Node.js
Databases: MySQL, database design and optimization
Frameworks and Tools: Hibernate, Jenkins, Docker, Anaconda (conda, condaforge, mamba), Bash scripting
Cloud and Deployment Tools: Google Cloud Platform (Compute Engine, Secrets Manager, Artifact Registry), Nginx
Software Development Practices: CI/CD pipelines, Python package creation (PyPI and Anaconda), version control with Git/GitHub
Team Collaboration: Proven ability to collaborate in cross-functional teams to design, build, and deploy software systems. Developed and maintained software in team settings using Agile methodologies.
IDEs and Editors: UNIX vi, VSCode, Visual Studio, Eclipse

WORK EXPERIENCE

Data Management Intern
Renaissance Computing Institute
📅 05/2023 – present 📍 CHAPEL HILL, NORTH CAROLINA, UNITED STATES

Created a python package that builds docker images and pushes them to a Google Cloud Artifact Registry (GCAR) to improve the security and efficiency of an existing deployment pipeline.

Research Intern
Coastal Studies Institute
📅 05/2022 – 08/2022 📍 WANCHESE, NORTH CAROLINA, UNITED STATES

Supported programming and data management to support NCROEP marine resource observations program.
Created a Julia program to use HF Radars to derive characteristics from the Gulf Stream.

PROJECTS

Frontend Developer
Sunshine
📅 01/2024 – 05/2024

- Developed a web application designed to tackle increasing mental health issues on NC State's campus
- Collaborated with the CSC Department and Counseling Center at NC State to produce a minimum viable product

Developer
Zybook Clone
📅 05/2023 – 07/2023

- Created a reduced functionality clone of the popular service Zybooks using Python and MySQL.
- Working on a team, successfully implemented a total BCNF database, a UI, and an ER Diagram.