

Audrey Tracy

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EDUCATION

North Dakota State University

12/2024 Completion

3.97 GPA, Dean's List (6/6 semesters)

- **Bachelor of Science, Computer Science** Emphasis on Software Development
- **Minor, Mathematics** Emphasis on Abstract Mathematics & Linear Algebra

Relevant Coursework: Mathematical Cryptography, Cloud Computing, Networking, Operating Systems, Frameworks, Database Systems, Software Testing & Debugging, Ethical Hacking

WORK EXPERIENCE

Research Assistant, NDSU Computer Science Department

10/2022 – Present

- Tested the efficacy of applying AI in identifying patients based on vital sign data, as an additional layer of protection against patient misidentification
- Automated input file generation from excel data to streamline testing, improving efficiency
- Summarized results in research paper to communicate processes and findings

Intern, DecksDirect.com

05/2024 – 08/2024

- Supported transition from manual entry to automated accounting software by reviewing scanned invoices to train ML extension in Oracle's NetSuite & documented issues
- Developed training videos & related materials to support transition of job responsibility to offshore employee

SKILLS

Languages

Java, Python, C++, C#, JavaScript, HTML/CSS, SQL

Frameworks

Django, Create React App, Angular

Tools

Git, NetBeans, Visual Studio, JUnit & NUnit Testing, Selenium, PostgreSQL

Other

SDLC & STLC, Agile, Raspberry Pi, Linux

PROJECTS

NDVI Calculation & Display - NDSU Capstone with Galois Inc.

React web application for image processing of drone-captured agricultural imagery

- Utilized Python to develop backend image-processing library to calculate NDVI from input image, supporting multiple input formats & color-mapping options
- Designed user interface to support frontend access to backend image processing functionality
- Served as team lead for dev phase 1 sprint, keeping project organized & on-track

Library Database Application

Java desktop application to simulate library book management (book search, checkout & holds)

- Designed PostgreSQL server database and wrote SQL trigger functions & queries
- Designed application user interface & implemented it using Java Swing to provide user-friendly ability to manipulate database
- Used prepared statements to improve efficiency & database security
- Performed unit testing of developed code to verify functionality

Estimation Assistant Web Application

Apache Tapestry web application for tracking and improvement of user estimation abilities

- Performed maintenance on existing codebase, resolving bugs to further functionality and reliability
- Worked with customer to develop new feature requirements, implementing them in the application
- Produced technical specification document with system and design diagrams
- Redesigned & reimplemented database using Apache Cayenne Modeler, improving efficiency & eliminating redundant data in tables