Audrey Tracy

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EDUCATION

North Dakota State University
3.97 GPA, Dean's List (6/6 semesters)
- **Bachelor of Science, Computer Science**   **12/2024 Completion**
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, Angular, Create React App
Tools	Git, NetBeans, Visual Studio, JUnit & NUnit Testing, Selenium, PostgreSQL
Other	SDLC & STLC, Agile, Raspberry Pi

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
  - Supports multiple input formats & color-mapping options
- Designed API 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
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