Andrew Lo

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Programming student with a distinctive forensic science background, bringing exceptional analytical and problem-solving abilities to software development. Skilled in full-stack web development with modern technologies and data management systems, consistently delivering high-quality work through effective team collaboration.

About Me

Programming
JavaScript · C++ · C · HTML · CSS · SQL · Python

Libraries/Frameworks
React.js · Bootstrap · Express · Next.js · Mongoose · Sequelize · Tailwind · Formik

Tools
MongoDB · Git · GitHub · PostgreSQL · pgAdmin · Jira · Oracle SQL · Postman

Core Competencies
- Strong analytical and problem-solving abilities
- Excellent written and verbal communication
- Team collaboration and project coordination
- Attention to detail and quality assurance
- Critical decision-making abilities

Education

Candidate for OCD in Computer Programming & Analysis
Seneca Polytechnic
SEP 2024 – APR 2027
- Relevant Courses: Object-Oriented Software Development Using C++, Software Analysis and Design, Web Programming for Apps and Services, Software Testing, Advanced Database Services

H.BSc in Forensic Chemistry
University of Toronto
SEP 2016 – APR 2021

Work Experience

Forensic Analyst
Toxicology, Centre of Forensic Sciences
JAN 2023 – AUG 2024
- Verify incoming and outgoing evidence against appropriate documentation to ensure all appropriate information is provided
- Advise coroners, investigators and law enforcement officials on protocols for acceptance, collection, disposal, and return of evidentiary items

Operational Services Officer
Business Unit, Centre of Forensic Sciences
OCT 2021 – DEC 2022
- Coordinate the purchasing and procurement of consumables and equipment at the CFS
- Assist financial analysts in end of year fiscal planning, budgeting, and reconciliation to meet deadlines

Technical Projects

Climate Solutions Project System
JavaScript, Express, bcrypt, Sequelize, pgAdmin
MAY 2025 – AUG 2025
- Designed full stack solution using JavaScript backend with EJS templating for server-side rendering
- Integrated PostgreSQL database for data storage and implemented full CRUD operations
- Utilized bcrypt for secure password storage and utilizing hashing algorithms for protection of sensitive user information
- Built a responsive user interface utilizing Tailwind and DaisyUI for consistent styling and ease of use

Delivery Route Management
C++, GitHub, Jira, Unit Testing
JAN 2025 – APR 2025
- Developed C/C++ program designed to calculate the optimal routes for delivering packages with pathfinding algorithms
- Applied agile development methodology with software development lifecycle practices with team members
- Methodically documented team agreements, scrum meetings, code, and changes that were made to overall program to organize and update team members on progress using GitHub and Jira
- Implemented comprehensive testing strategy including white-box, black-box, acceptance, and integration test cases, using automated testing frameworks

Volleyball Stat Tracker
JavaScript, React.js, Next.js, MongoDB, Postman
AUG 2025 – PRESENT
- Designed a web application to allow users to track and update their volleyball statistics, following NCAA stat tracking
- Implementing robust user interface using TailwindCSS 4 and Formik to enable real-time stat tracking and data validation
- Integrating MongoDB database for storage and retrieval of user statistics, with RESTful API endpoints for seamless data management
- Built RESTful APIs for creating, reading, and linking various entities with schema relationships