Nina Zhang

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SKILLS

Languages: C++, C, Java, Python, JavaScript, HTML/CSS, Racket

Technologies/Libraries: Git, Bash, Linux, Amazon Web Services, Google Firebase, Node.js, Apache POI, PyGame

Experience

Undergraduate Research Assistant | University of Waterloo Python

September 2023 – December 2023

Waterloo, ON

- Mentored by Joy Idialu and supervised by Professor Jo Atlee worked on the detection of AI-generated code
- Extracted coding problems from documents to structured JSON format to facilitate automated solution generation
- Developed Python scripts to extract lexical features of code to help contrast AI and human code
- Utilized scripts and Chat-GPT to generate solutions to online coding problems to compare to human solutions

Android HMI Software Developer | Ford Motor Company

May 2023 – August 2023

Java, Kotlin, Linux, Jira

Waterloo, ON

- Modified and overlayed UI components for the Ford Car Infotainment System
- \bullet Developed unit tests for various UI components and increased code coverage for widgets by 200%
- Resolved visual defects for the Ford Car Infotainment System to ensure code reliability and functionality
- Created documentation and guides on unit testing and resolving RTL defects to assist with onboarding

Software Developer (Volunteer) | BeaverWithU

July 2022 – August 2022

Java, Google Firebase, Android Studio

Markham, ON

- Developed an android app using Java in Android Studio that helped students to find volunteer opportunities
- Led and directed two other members to develop the front end of the app
- Used Google Firebase as a database aimed to store 100+ volunteer opportunities and 200+ users' data
- Integrated Apache POI to parse and display updated volunteer information in real-time

Projects

StudyBuddy | JavaScript, HTML, CSS, AWS(S3, EC2, DynamoDB), Node.js

- Developed a website deployed on AWS using S3 and EC2 services with a back-end written in JavaScript
- Optimized user experience on a responsive todo-list written in HTML/CSS with smooth transitions
- Leveraged JavaScript and JSON objects to store and display todo-list from local storage automatically
- Integrated AWS DynamoDB and JSON objects for users to store and read todo-list from online
- Improved on-time task completion of users by helping users to remember tasks

Music Instrument Sign In/Out App | Java

- Designed and developed a **Java** desktop app with **Java GUI** allowing teachers to search for instruments and check their borrowing history
- Stored sign-in and sign-out history of instruments on files and read from files to display history by using java.io
- Utilized **object-oriented programming principles** such as encapsulation to prevent history corruption

AWARDS

UW Alumni Women in Technology Entrance Scholarship (\$5000)

University of Waterloo President's Scholarship of Distinction (\$2000)

Pierre Elliott Trudeau High School Academic Accomplishment Award

• Awarded to the student with the highest academic achievement in the graduating class

Distinction in Euclid Contest (math contest, top 25% of 20000+ contestants)

EDUCATION

University of Waterloo Bachelor of Computer Science

Waterloo, ON

September 2022 - June 2027

- Cumulative GPA: 94.25%
- Relevant Coursework: Object-Oriented Software Development, Tools and Techniques for Software Development, Elementary Algorithm Design and Data Abstraction, Functional Programming