

Alexander Shen

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TECHNICAL SKILLS

Languages: JavaScript, Python, C++, Java, C, TypeScript, HTML/CSS, RegEx

Frameworks: React, Node.js, Bootstrap, jQuery

Developer Tools/Libraries: MongoDB, Firebase, Amazon Web Services (AWS), Docker, Bash, Git, Vim

EXPERIENCE

Full Stack Developer

Jan 2024 - Present

Polaris Intelligence

Toronto, Ontario

- Refactored **1500+ lines of code** regarding modals to enhance code maintainability and flexibility by restructuring modal calls and stylings to promote abstraction following **SOLID principles and OOP concepts**.
- Optimized test script performance by **80%** through the implementation of **parallel execution utilizing threading**.
- Demonstrated proficiency in creating a robust postal code to address web scraping script featuring **parallel execution, fuzzy searching, and address matching capabilities**, resulting in improved duplicate address handling and accurate data extraction for an effective scraping process.

QA Analyst

May 2023 - Aug 2023

JANA Corporation

Aurora, Ontario

- Automated **40% of regression test cases** by creating **Selenium and Java** automation scripts, speeding up the testing process and saving valuable resources and time for **faster software delivery**.
- Documented **over 100 bugs** using **JIRA, TestRail and the AGILE methodology**, enhancing the **software's reliability** and user experience.
- Addressed **authentication challenges regarding 2FA OAuth** by incorporating **cookie-caching methods**, **streamlining the automation workflow** to work with minimal manual intervention.

Full Stack Developer

Jun 2022 - Aug 2022

Ministry of Health

Toronto, Ontario

- Learned about the **CI/CD Pipeline, OOP principles, monolithic repositories, and Azure DevOps** for project planning and version control while working with developers and business executives.
- Automated processing of budget requests** by creating a frontend-to-backend data processing pipeline using **React, Express, Node.js, MongoDB, and REST API**, improving **data entry speed by 80%** for users.
- Optimized app performance by **debugging 10+ bugs** using **TypeScript and VSCode debugging functions**, including frontend validation bugs, redundant API calls to the backend server, and bugs concerning data processing with Excel.

PROJECTS

GI Deck Builder Website | *JavaScript, MongoDB, Express, Node.js, React, Firebase*

- Built a web app that acts as a deck manager for users, allowing them to build new decks, download current decks and share it with others using the **MERN stack (MongoDB, Express, Node.js, React)** with a **React, Bootstrap and Redux** frontend for global state management and responsive UI.
- Used **Python and BeautifulSoup** to scrape **100+ card images** and data from websites and Google Sheets, which were stored using **MongoDB and Cloud Storage with Firebase**.

CQ Wiki/Tier List Website | *React, JavaScript, Python*

- Created a wiki and tier list website using **React, JavaScript, and SCSS** for users to easily find ratings and info for specific characters.
- Utilized Python to scrape tier list data containing **over 300 characters** from websites and Google Sheets.

Notion-YouTube Music Player | *Python, Bash, AppleScript*

- Made a set of Python scripts that imitates a music player app utilizing the **YouTube Data API and Notion API**, using YouTube to play songs and Notion to store song data.
- Created a simple UI using Keyboard Maestro to map keyboard shortcuts to **Bash commands** and run relevant Python scripts.

EDUCATION

University of Waterloo

Sep 2022 - Apr 2027

Bachelor of Computer Science (Co-op)

GPA: 3.78

Courses: Logic and Computation, Object-Oriented Software Development, Elementary Algorithm Design and Data Abstraction, Tools and Techniques for Software Development, Designing Functional Programs.