Patrick Li

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Education

Queen's University	**Sept 2018 − Dec 2019**
Bachelor of Science with Honours in Computer Science	*Kingston, Ontario*
York University	**Jan 2020 - Oct 2023**
Bachelor of Science with Honours in Computer Science	*Toronto, Ontario*

Relevant Courses: Design and Analysis of Algorithms, Data Structures, Advanced Object-Oriented Programming, Database Systems, Software Design, Computer Security, Operating System Fundamentals, Computer Organization, Programming for Mobile Computing, Computational Complexity, E-commerce Systems, Software Testing, User Interfaces, Data Mining

Certifications: Coursera: Neural Networks and Deep Learning, Machine Learning

Work Experience

Business Analyst Intern	**May 2022 − Dec 2022**
goeasy LTD.	*Mississauga, Ontario*

- Conferred with stakeholders to elicit and documented high level requirements
- Documented data flows and system interactions within the portfolio of products
- Worked with business stakeholders, and software development teams to analyze business challenges
- Assisted Product Manager to prioritize backlog to address business needs and maximize business value
- Adapted to multiple shifting priorities and effectively functioned under deadlines with minimal supervision
- Created functional and technical diagrams, process flows, sequence diagrams
- Documented requirements, use cases, user stories, acceptance criteria, non-functional requirement matrix document
- Coordinated with the UAT and stakeholders to develop test plans to be used to test to ensure all requirements are met

Projects

Crystal Optical | *Java*, *HTML, CSS, TypeScript/JavaScript*   **Apr 2023**

- Led end-to-end development of a web application for an online luxury glasses store, incorporating a specialized inventory of frame and lens pairs.
- Designed and implemented intuitive UI/UX design for Register, Sign-in, and Sign-out pages.
- Integrated a chatbot feature for customer support and navigation assistance, resulting in a seamless e-store experience for Customers.

Instrument App | Flutter   **Dec 2022**

- Developed a fully functional application that provides an immersive user experience by enabling interaction with various instruments, including Piano, Guitar, and Drum.

Shortest Path | *Java, JUnit*   **Nov 2021**

- Designed and developed a highly efficient application utilizing a recursive algorithm to determine the shortest path from a randomly selected point on a 2D grid to a border point.

Bike Share | *Python*   **Aug 2021**

- Developed a robust console application empowering user to effortlessly rent and return bikes.
- Implemented additional functionalities, including real-time updates on stations without available docks, tracking the number of available docks/bikes, and sorting stations in descending order based on dock or bike availability.

Transcript Generator | *Java, JUnit*   **Jun 2021**

- Developed an application that utilizes a text file to extract information about a group of students, generating a transcript and saving it to another text file.
- Implemented the application based on a UML Diagram, overcoming challenges in accurately processing the input file and ensuring proper formatting of the output file.

Technical Skills

Programming Languages: Python, Java, C/C++, Flutter, HTML/CSS, SQL, Assembly, JavaScript, LaTeX

Software/Tools: Git, Jira, Confluence, Figma, RISC-V, VS Code, Eclipse, IntelliJ, Android Studio, Linux, MySQL, MS Office Suite

Leadership, Core Competencies, & Skills:

- Strong analytical and problem-solving skills, able to interpret business requirements and articulate them into models and concepts that plug into bigger scope projects
- Strong written and communication skills, able to present requirements, concepts, and procedures in a clear and concise manner
- Solid organizational and multi-tasking skills with the ability to work in a fast-paced environment
- Experience with the use of business analysis practices and tools (e.g., MS Excel, MS Word, MS PowerPoint, Jira, and Confluence)
- Experience developing requirements templates to be used to document requirements
- Familiarity with Waterfall and Agile methodologies
- Self-starter, results-oriented and motivated with excellent analytical and technical skills
- Organized and lead a meeting with stakeholders and UAT to create test cases that ensured the requirements for the project are matched
- Prompted team of important deliverables and updates
- Constructed team and project confluence spaces
- Organized a portion of the Hackathon event and ensured that the schedule was met on time
    - Helped fellow coordinators complete tasks when assigned tasks were completed
    - Provided and maintain excellent services to hackathon during high-paced situations