

RONG GANG (ROGER) XU

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Summary

Aspiring Software Engineer seeking a position at PostGrid to leverage technical, problem-solving, and collaboration skills to support the team's success.

Skills

Programming Skills: Python, JavaScript, TypeScript, HTML, CSS, Node.js, Express, MVC, React, Next.js, SPFx, Bootstrap, Tailwind CSS, Daisy UI, Material UI, PostgreSQL, Oracle SQL, MongoDB, C/C++, PowerShell, Data structures and algorithm

Testing Frameworks: Jest, React Testing Library

Other Technologies: Linux, Git, Bash, RESTful API, Microsoft Azure, JIRA, SDLC, SCRUM Agile methodology, CI/CD, YAML Pipeline, UML, MS Office, SharePoint, Teams, Power BI, Power Automate, Power Apps

Relevant Education

Diploma: Computer Programming Apr. 2025
Seneca Polytechnic Toronto, ON

- GPA 4.0/4.0, President's Honour List

Master of Commerce and Master of Professional Accounting Feb. 2011
University of Sydney Sydney, Australia

Bachelor of Economics Jun. 2008
People University of China Beijing, China

Professional Experience

Systems Developer Co-op (Full-time 8 months) Sep. 2024 – Apr. 2025
Healthcare Of Ontario Pension Plan Toronto, ON

- Modernized multiple customized **SharePoint** web parts by upgrading to the latest **SPFx** framework, resolving legacy dependencies, addressing technical debt, and integrating updated **Power BI** reports.
- Designed and implemented an **Event Poll feature** within a SPFx event web part using **React** and **TypeScript**, leveraging SharePoint **REST API** to enabling organizers to seamlessly collect and manage participant selections.
- Redeveloped the Links Table component for a TypeScript and React based SharePoint Webpart utilizing DataGrid from **Material UI**
- Built a **Power Automate** flow to dynamically update flag statuses for items in a SharePoint-based policy library, streamlining document management.
- Diagnosed and repaired a broken **CI/CD YAML** pipeline by introducing a new authentication method using **Azure App Registration** with certificate-based access to SharePoint.
- Architected a scalable internal activity tracking App using **Azure Runbooks** to automate updates across multiple SharePoint lists for over 1,000 potential internal participants, supporting dynamic statistical rendering in various formats.
- Designed and implemented **Jest**-based unit test automation for a custom SPFx web part, improving test coverage and integrating with the CI pipeline to ensure stable, test-verified builds.

- Led a team of three in an internal GitHub Copilot Hackathon, building an **Azure Function** using the **Azure OpenAI Service** to perform sentimental analysis and automatically assign priority levels to support requests submitted through the Azure DevOps board.
- Led the investigation, development, and execution of configuration **PowerShell** scripts to rollout **Microsoft Places**; collaborated cross-functionally with partner teams to test and fine-tune the setup in the test environment.

Projects

Meal Kit Shopping Web App (JavaScript, EJS, MVC, Node.js, Express, Tailwind CSS, MongoDB)

- Developed a web app for exploring and ordering meal kits utilizing EJS, MVC, Node.js, and Express.
- Implemented robust user authentication and authorization systems, managing user and meal kit data with MongoDB for testing purposes, ensuring 99% uptime and handling over 800 test user records.
- Designed a responsive user interface facilitating dynamic ordering and shopping cart functionality with Tailwind CSS and Daisy UI, reducing the average user interaction time by 30%.
- Integrated SendGrid to automatically communicate with users for registration and order confirmation, testing over 500 automated emails with a 97% delivery success rate.

Metropolitan Museum Artwork Viewer (JavaScript, React, Next.js, SWR, Jotai, React-Bootstrap)

- Developed a React-based web app that displays artwork from the Metropolitan Museum's RESTful API, with a responsive UI built using React-Bootstrap.
- Implemented efficient data fetching with SWR and state management with Jotai, supporting features like personalized favorites, artist info, and graceful fallbacks.

Disaster and Emergency Aid Management App (C++)

- Programmed an application that manages list of items needed to be shipped to areas hit by disaster.
- Implemented multiple class modules by applying various C++ features such as virtual function, polymorphism, and operator overload.
- Applied multiple algorithms such as sorting and search to utilize the program efficiency.

Hotel Reservation Database (Oracle SQL)

- Led a team to design a hotel reservation database from scratch, encompassing initial requirements gathering, system architecture design, and database modeling.
- Implemented database normalization up to 3NF to eliminate data redundancy and ensure data integrity.
- Created relational tables to establish clear relationships between different entities like customers, rooms, and bookings.

NuPuzz - A Classic Puzzle Game (HTML, CSS, React)

- Developed an interactive puzzle game using React, showcasing advanced problem-solving and UI/UX design skills.
- Implemented a custom algorithm for random puzzle generation and real-time tile movement logic with adjacency checks.
- Utilized React hooks for efficient state management and performance optimization.

Memory Fun - A Card Matching Game (Next.js, React, Bootstrap)

- Built an interactive memory game using Next.js and React, demonstrating strong front-end development and state management skills.
- Designed a randomized card layout and implemented logic for matching pairs, with real-time feedback and animations.
- Created a responsive and user-friendly interface using Bootstrap, ensuring compatibility across devices.

- Leveraged React hooks for dynamic state updates and efficient game logic handling.

Other Work Experience

Property Manager

May. 2015 – May. 2023

Self-Employed

Toronto, ON

- Oversaw 25 properties, coordinating repairs, tracking expenses, and managing tenant communications.

Customer Service Representative

Nov. 2013 – May. 2015

TD Canada Trust

Richmond Hill, ON

- Ranked 1st regionally in sales performance while delivering professional, empathetic, and responsive customer service.

IBD Analyst

Jul. 2011 – May. 2013

J.P. Morgan First Capital Securities Co., Ltd.

Beijing, China

- Contributed to the successful execution of IPOs, private placements, and bond issuances through effective collaboration with clients and legal/accounting partners.