Patrick Wong

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SKILLS

Tools & Technologies: Golang, Angular, Typescript, MySQL, Docker, Git, Node.js, JavaScript, HTML & CSS, MongoDB, Python, C#

Industry Knowledge: Agile, Scrum, CI/CD, Software Development Life Cycle (SDLC)

EXPERIENCE

Software Engineer 2
Index Exchange   **March 2021 - Present, Toronto**
- Improved ad targeting capabilities in the marketplace by creating a system that allows publishers and buyers to target specific audiences with their deals, resulting in a 20% increase ad revenue.
- Streamlined page maintenance by 89% by designing a component to dynamically generate form fields based on a configuration, which allows for quick and easy updates to pages with always-changing targeting audiences.
- Dramatically improved user experience from 14s to 0.5s per page load by moving pagination and search queries from client to server which enables better scalability over time.
- Mentored and trained new team members, including co-op students, to ensure they onboarded quickly and effectively, resulting in improved team productivity and knowledge sharing.

Software Engineer
Index Exchange   **September 2019 - March 2021, Toronto**
- Enabled streamlined deal creation and modification in the marketplace by developing a new UI workflow with Angular for the front end and Golang for the back end, utilizing RxJS and observables for real-time data updates, resulting in a reduction in deal creation time and increased user satisfaction.
- Improved code efficiency and reusability across multiple projects by developing custom Angular Material components that handles view and edit mode using Angular CDK and Angular animations that served as the foundation for creating additional custom Angular components, as measured by development time saved and consistent user experience.
- Increased flexibility and customization of product features by designing and implementing a feature flag system that enables targeted feature releases to specific users or user groups, as measured by user feedback and increased feature adoption.

Solutions Engineer/Technical Solutions Consultant
Index Exchange   **July 2018 - September 2019, Toronto**
- Developed and implemented an automated tool using Node.js to streamline the process of mass deploying newer version of JavaScript files to production, reducing the time required for this tedious task by over 90%.
- Delivered technical troubleshooting and problem-solving services for high-value clients, including Bloomberg, Microsoft, eBay, and others, ensuring their satisfaction with the services provided.
- Collaborated with cross-functional teams, including sales, engineering, and product management, to identify and prioritize client needs, develop solutions, and deliver customized product demonstrations and presentations.

Full Stack Developer
Precise Parklink   **September 2016 - July 2018, Toronto**
- Developed a web application that sends email notifications to users upon detecting a matching license plate during entry or exit.
- Created a highly customizable dynamic registration page for monthly parking using Moneris' hosted vault page solution, allowing each client to tailor payment methods, card delivery options, and required fields to their specific needs.

PROJECTS

Hogwarts House Cup Slack Bot
Index Exchange • November 2023 - November 2023

- Created a Harry Potter inspired Slack bot as part of an in-house hackathon project, designed to celebrate coworker achievements through a kudos system.
- Developed the UI of the application using Angular and hosted on Heroku for optimal performance.
- Published the project code on Github to promote accessibility and facilitate collaboration: https://github.com/wongpatrick/team-snitch-hackathon-ui.

EDUCATION

Bachelor of Science in Medical Physics
Toronto Metropolitan University • Toronto • 2014