

# Sonu Kapoor

416-300-0477

[sonukapoor@gmail.com](mailto:sonukapoor@gmail.com)

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## PROFESSIONAL PROFILE

- Over 15 years of experience in Software Engineering working on front-end and back-end applications.
- Experienced in all phases of the software development life cycle (SDLC), which includes User Interaction, Business Analysis/Modeling, Design/Architecture, Development, Implementation, Integration, Testing (Test-driven development) and Deployment.
- Experience in guiding teams through the complete software engineering lifecycle, from POC inception to product release, demonstrating adept leadership in every stage of development.
- Extensive experience in designing professional UI web applications using front-end technologies.
- Committed to excellence, self-motivator, fast learner, always striving to improve.
- Excellent interpersonal abilities, communication skills, time management and team skills with an attention to working hard to attain project deadlines under stressful environments.

## IMPACT

- Received **Microsoft's Most Valuable Professional** award yearly from 2005 to 2010 for my contributions to the **ASP.NET** community.
- Received **Microsoft's Most Valuable Professional** award for 2024 - 2025 in the category of **Developer Technologies**.
- Received the **Google Developer Expert Award** in the category of **Angular** in 2024.
- Recognized as an [Angular trusted collaborator](#) from Google in 2020 for my contributions to the Angular [open source project](#) - **There are only 11 trusted collaborators worldwide**
- Extensively contributed to Angular repo by creating over 100 Pull requests in less than 1 year
- Core member of the [Ngx-Layout](#) open-source package used to create flex layout systems in Angular
- Wrote 15+ articles on several publications such as [Dev.to](#), [Medium](#), [Hackernoon](#)
- Given various talks on Web performance and using NgOptimizedImages
- I am an **IEEE** senior member and a **Globee Judge for Technology and AI**
- Wrote the book [Ai Powered App Development: Leveraging Angular, Python, and Google AI: Ai Practical Solutions](#)
- Wrote an upcoming book on Javascript: [Beginning JavaScript Syntax - Understanding Syntactical Rules and Structures for Better JavaScript Programming](#)

## TECHNICAL SKILLS

- Programming Languages - TypeScript, JavaScript, HTML, CSS, SCSS
- Testing Frameworks - Unit Testing, Karma, Jest, Cypress, TDD
- Backend - Node.js, Nest.js, GraphQL
- Web Frameworks - AngularJS, Angular (Expert level)
- Databases - Non/Relational databases (MS SQL, Oracle, MySQL), Neo4j

## WORK EXPERIENCE

### Self-Employed, Toronto, Ontario

**Senior Angular Architect**, Mar 2024 - Present

- **Tech stack:** Angular 18, NgRx, NX, NestJS, PostgreSQL
- Collaborating with Wilbur Ellis to enhance their front-end project using Angular and PostgreSQL, delivering optimized, high-performance solutions.
- Architected and developed RESTful services with NestJS to integrate with PostgreSQL.
- Provided expert guidance on front-end architecture, performance optimization, and best practices in Angular development.

### CITIBANK CANADA, Mississauga, Ontario

**Senior Angular Architect (Contract)**, Aug 2022 - Mar 2024

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- **Tech stack:** Angular 15, JavaScript, TypeScript, NgRx, NX
- Spearheaded a team of 5 engineers to upgrade four distinct TypeScript/Angular applications within the Electron framework, elevating them from version 5 to 14. Collaborated closely with cross-functional teams to ensure compatibility and functionality with the upgraded framework.
- Improved Electron's functionality by introducing new APIs for the latest version while maintaining compatibility with existing APIs, offering users a choice between the two.
- Orchestrated the transformation of our Angular application deployment strategy, streamlining it for cloud deployment in Kubernetes and Openshift, integrating with uDeploy for CI/CD automation. Previously, the application was confined to individual user systems within Electron. Developed a comprehensive architectural diagram delineating critical dependencies for the migration process, guiding the conversion of necessary components.
- Leveraged Openshift, Kubernetes, and Jenkins to facilitate the deployment of web applications across regional clusters, enhancing scalability and performance.
- Set up load balancers for failover.
- Improved Jenkins build times using NX from 1 hour to ~15 minutes.

## Cisco, Toronto, Ontario

**Tech Lead** (*Full time*), June 2021 - Aug 2022

- **Tech stack:** Angular 12, JavaScript, TypeScript, ES6, NgRx, State management, Router-Store, AWS, Azure and Google Cloud
- Served as the Technical Lead for the UI-Framework team, overseeing a group of five skilled Angular engineers. Successfully guided the team in the integration of new features into the CX Cloud application.
- Orchestrated the architectural enhancement of the Angular application by implementing the NgRx router state, optimizing its overall performance and functionality.
- Authored multiple comprehensive design documents containing innovative proposals aimed at enhancing the routing structure through the implementation of lazy-loaded modules.
- Spearheaded a comprehensive refactoring initiative to revamp the entire user-state process, leveraging NgRx effects to optimize efficiency and maintainability.
- Extensively integrated the NgRx state management framework to streamline application data flow and improve overall performance.
- Collaborated closely with design teams, effectively translating Figma designs into Angular components, ensuring a seamless and visually appealing user interface.
- Collaborated with product managers to deliver user experiences.
- Integrated RESTful web services as well as implemented many of them using Node and MS SQL for the backend.
- Gained exposure to Kubernetes and Docker for containerizing and deploying microservices-based applications in cloud environments, improving both scalability and operational efficiency.

## CITIBANK CANADA, Mississauga, Ontario

**Senior Angular Architect** (*Contract*), Dec 2019 - June 2021

- **Tech stack:** Angular 8, JavaScript, TypeScript, ES6, NgRx, NX, Jest, Karma
- Engineered a dynamic column grouping feature to organize streamed data efficiently. This involved the modification of existing groups and the insertion of new groups within specified parent groups, all while optimizing performance and considering time/space complexity through memoization techniques.
- Developed an alerting and notifications framework capable of generating custom alerts with dynamic criteria based on data or time. Additionally, a scheduling service was implemented to dispatch these notifications and alerts as needed.
- Leveraged Electron to render Angular applications, enabling integration with backend providers. Implemented multiple backend providers to react to data consumption events, such as opening a toast notification.

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- Designed a loader to facilitate the dynamic loading of sorting algorithms within AG-Grid, empowering various departments at Citi Bank to apply custom sorting to their columns.
- Pioneered a Commit Service that allowed for data editing within the Grid, with the flexibility to choose between batch and real-time submission modes. Incorporated conflict resolution mechanisms to address simultaneous data edits and introduced dynamic validation logic for data integrity.
- Introduced a robust system of hooks and statuses within the Commit Service, granting users the ability to implement custom logic during the lifecycle of edited data and its associated statuses.

## Backbase, Toronto, Ontario

**Senior Angular Consultant** (*Temp Contract*), July 2019 - Dec 2019

- **Tech stack:** AngularJS, Angular 8, JavaScript, TypeScript, ES6, Jest, Karma
- Tailored and expanded Backbase components/widgets effectively utilizing WA2/WA3 technologies.
- Empowered bank developers to craft new websites within the Backbase system, facilitating rapid and efficient development.
- Employed Backbase CLI to construct custom Angular packages, aligning them precisely with customer requirements.
- Utilized a blend of AngularJS, Angular, and TypeScript, demonstrating versatility in implementing modern web technologies.
- Demonstrated proficiency in customizing Backbase components through the utilization of custom Backbase schematics, enabling the generation of new components based on existing Backbase UI components.
- Orchestrated the implementation of themes, internationalization (i18n), and currency formatting, enhancing user experience and global reach.
- Crafted bespoke JavaScript scripts and modules to accommodate client-specific customizations, ensuring an integration with their unique needs.
- Delivered weekly demonstrations to stakeholders, showcasing project progress and fostering effective communication throughout the development cycle.

## CITIBANK CANADA, Mississauga, Ontario

**Senior Angular Consultant** (*Contract*), June 2018 – July 2019

- **Tech stack:** Angular 6, JavaScript, TypeScript, ES6, Karma
- Set the foundation of the self-service framework using Angular
- Built the core algorithm to retrieve high-frequency data with lots of updates
- Built the first set of features allowing users to manipulate the layout
- Provided the first set of custom algorithms to be used by the traders
- Created custom cell renderers to render complex HTML

## UPTAKE CANADA, Mississauga, Ontario

**Staff Senior Software Developer** (*Full time*), June 2017 – June 2018

- **Tech stack:** Angular 4 & 5, JavaScript, TypeScript, ES6, C#, NodeJS, MS SQL, Karma
- Led and directed a team of three Angular developers, ensuring the successful execution of projects and promoting a collaborative and high-performance work environment.
- Spearheaded a pivotal Angular project within the construction industry, contributing to its successful execution and impact.
- Elevated the Angular project's version from 4.1 to the latest release while meticulously maintaining all associated npm packages to ensure performance and security.
- Played a pivotal role in the company's transition from TFS to GIT, streamlining version control and improving collaboration among development teams.
- Exemplified mentorship by imparting SOLID principles and best practices in Angular and JavaScript to fellow developers, fostering a culture of excellence within the organization.

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- Collaborated closely with cross-functional teams to translate intricate requirements into precise technical specifications, facilitating the development team's efficient execution.
- Pioneered the introduction of ES6 and functional programming paradigms, enriching the team's skillset and enhancing code quality and maintainability.

## **RANGLE.IO, Toronto, Ontario**

**Senior Software Developer** (*Full time*), Sep 2016 – June 2017

- **Tech stack:** AngularJS, Angular 2, JavaScript, TypeScript, ES6, Jest, Karma
- Collaborated on multiple Angular 2+ projects, consistently delivering user-friendly interfaces that met clients' needs.
- Developed front-end applications for a diverse clientele, skillfully utilizing AngularJS, Angular 2, TypeScript, Webpack/Webpack2, and NodeJS to craft robust and dynamic web solutions.
- Authored comprehensive course materials, encompassing handouts, exercises, and practical examples for Rangle.io's Angular 2 training book, enhancing the learning experience for aspiring developers.
- Contributed to the successful delivery of offsite training sessions, empowering clients to elevate their proficiency in Angular 2 and JavaScript, thereby fostering their growth and skill development.
- Collaborated with Rangle.io on consulting initiatives for multiple clients, leveraging expertise to provide valuable insights and solutions for complex challenges.
- Pioneered a workshop focusing on payment processing using Cybersource, expanding the organization's knowledge base and addressing a critical industry aspect.
- Conducted a weekly 3-hour workshop dedicated to payment processing, sharing insights and expertise with other teams and members, fostering continuous learning and skill enhancement.

## **CONTROLTEK, New Jersey, NY**

**Lead Software Developer** (*Contract*), Aug 2015 – July 2016

- **Tech stack:** AngularJS, JavaScript, ES6, NodeJS, IONIC, Neo4J, PostgreSQL, Jest, Karma
- Developed a Cordova mobile application by harnessing IONIC, Angular JS, Neo4J, and node.js technologies. This application served a pivotal role in the retail sector, enabling communication via Bluetooth with an RFID Handheld reader to scan tags.
- Ensured the application's top-tier performance, capable of swiftly processing thousands of tags within mere milliseconds, optimizing efficiency and productivity.
- Implemented innovative features, including a "find inventory" function that allowed customers to scan or enter a barcode to locate items within a collection of random products. A range slider was ingeniously incorporated to indicate the proximity between the reader and the sought-after item, streamlining the search process.

## **AMERICAN APPAREL, Los Angeles, CA**

**Director of Software Engineering** (*Full time*), Oct 2011 – July 2015

- **Tech stack:** ASP.NET, C#, VB.NET, MS SQL, WCF
- Led a dynamic team of 10 developers in a successful migration project, transitioning the e-commerce platform to ATG and Oracle. The prior platform was a complex amalgamation of Yahoo Small Business, ASP.NET, and classic ASP components.
- Pioneered the development of a robust loyalty system within MS SQL Server 2005, leveraging sales data from ATG as a foundation. Implemented a series of SSIS packages, utilizing Attunity Oracle connectors, to facilitate communication between MS SQL Server and Oracle. These packages enabled the efficient import/export of sales data and user information for BI reporting and additional data processing.
- Executed a migration of the legacy credit card system for American Apparel to the CyberSource platform, enhancing security and transaction capabilities.
- Designed and implemented multiple SSIS packages and reports to capture real-time inventory data from each retail store, facilitating accurate tracking and management of backorders.

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- Innovatively crafted a .NET system tailored for retail stores, enabling efficient order fulfillment for items that were not readily available at the distribution center, and enhancing customer service and operational efficiency.

## **AMERICAN APPAREL, Montreal, Canada**

**Lead .NET Software Developer** (*Full time*), Oct 2005 – July 2011

- **Tech stack:** ASP.NET, C#, VB.NET, MS SQL, WCF
- Pioneered the development of a comprehensive company-wide Intranet utilizing the .NET framework.
- Engineered a suite of tools tailored for Retail employees, facilitating inventory transfers and item management, fostering operational agility.
- Designed and implemented features for the warehouse team to streamline delivery receipt processes, enhancing overall logistical efficiency.
- Collaborated closely with the Retail department, leveraging technology to optimize workflows and drive operational efficiency initiatives.

## **Links**

- Github - <https://github.com/sonukapoor>
- LinkedIn - <https://www.linkedin.com/in/sonu-kapoor>

## **Podcasts**

- Podcast I host: <https://angular-catch-up.podbean.com/>
- This is Tech Talk: <https://www.youtube.com/@ThisisTechTalks>

## **Memberships**

- IEEE Senior Member
- Google Developer Experts