

EXPERIENCE

- **Loblaw Digital** Toronto, Canada
Senior Software Engineer *Apr 2023 – Present*
 - Leading backend projects spanning migration of monoliths to microservices and scaling up of websites/banners operating under Loblaw eg. www.loblaws.ca and shoppersdrugmart.ca serving entire Canada. Built robust gateway and orchestration services to support a multifold increase in traffic to 50k req/sec. Wrote deployment and notification tools adopted by multiple backend teams. Built and designed components in async reactive java framework from scratch
- **Microsoft IDC** Bangalore, India
Software Engineer 2 *Dec 2019 – Dec 2022*
 - As a part of M365 contacts ecosystem, I lead, designed and built the system that collates contacts from all services like Skype, yahoo, gmail, and device, dedupe them, and show them to the end user. I lead the design and implementation of importing, resolving contacts into an on-demand configurable view
 - Developed scalable distributed model-training GPU framework for Azure Cognitive services machine translation team on Azure cloud. Lead and managed the integration of the GPU compute and Azure components to it - Batch machines, sql, app services, function apps, dockers, quality metrics etc. to create models that run for even 20+ days. Independently designed, developed and exposed extensive sync/async APIs on serverless platform
- **Walmart Labs** Bangalore, India
Software Engineer III *Aug 2017 – Nov 2019*
 - Developed the application for the work-flow execution manager assisting in speech-to-text and a change in workflow resulting in a different flow. Designed and implemented the components of a Voice based, device integrated work-flow manager, that would help execute different order-filler warehouse operations assisted by voice commands.
 - Responsible for developing features and optimizing processing efficiency for an enterprise level monitoring(host level and custom application level metrics) and alerting framework *Artume* supporting a billion metrics per minute.

EDUCATION

- **Thapar University** Patiala, PB, India
Bachelor of Engineering in Computer Engineering; GPA: 8.86/10.0 *Aug 2013 – June 2017*

ACHIEVEMENTS AND PROFESSIONAL ACTIVITIES

- **A Comparison of Streaming Sensory Data Transfer Methods in Remote Processing Environment**
Published a Research paper targeted to decipher the most efficient protocol and configuration in different sensory data telemetry International Journal of Science and Research(IJSR), September 2018
- **Smart order fulfillment system** Filed Jun 6, 2018
Patented a novel idea to route any entity from a source to a moving destination US 16/001848
- Achieved top ranks in global coding platforms like Codechef, Codeforces. Handle: arushngpl16
- Received **Bravo award** in Walmart for consistently resolving bugs related to voice data transfer & mic-gain.
- Recognized in *Myntra.com* Hall of Fame (<http://www.myntra.com/security/whitehat>) for exposing a critical bug. Also found a bug in *Zomato.com* to bypass authentication and brute force coupon retrieval
- Developed both the UI as well as the backend of the official website of college library which serves e-books, e-journals and old question papers to enrolled students <http://cl.thapar.edu/>
- Served as mentor for Crio.do([link](#)) Winter of Doing program to build a storage drive and also mentoring 6 students as a part of Microsoft Engage'21 to build a voice/video chat app. Previously served as Joint Convener of CCS, TU in 2016 to lead a team of about 50 students organizing workshops and programming competitions. Also an essential part of OWASP security chapter, Thapar University

LANGUAGES AND FRAMEWORKS

Java, C#, Reactive Java, Spring boot, Spring webflux, Azure cloud framework, serverless, Asp.net, Node.js, C++, Cassandra, SQL Server, Distributed Systems, Docker, gRPC, KairosDB