
OBJECTIVE

I am a passionate software engineer with 5+ years of experience of developing robust code. I have experience working on server, web and mobile app development projects using the best software practices. I am an enthusiastic team player and a deep creative thinker. I am seeking a Software development position where I can use my expertise and grow as a Software developer while finding efficient solutions to complex problems.

SUMMARY OF QUALIFICATIONS

- Software development experience in server, Android and web development.
- Proficient in programming in Java, NodeJS.
- Strong background in algorithms, data structures, cryptography, network security.
- Certified AWS Cloud Practitioner, Google certified Associate Android developer
- Proficient in mathematics and eligible to work in Canada.

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, Kotlin, C++
- **Web Development:** React, HTML, CSS, jQuery
- **Technologies:** Spring Boot, NestJS, AWS tools (Lambda functions, Kinesis, CloudWatch), Rest API, GraphQL
- **Databases:** DynamoDb, SQL, SQLite, Realm
- **Version Control Systems:** Git
- **Operating Systems:** MacOS, Windows 7/8, Linux

RELEVANT EXPERIENCE

Senior Software Engineer, Royal Bank of Canada (RBC), Toronto, Canada **Jul/20 – Present**

- Working on developing REST APIs to retrieve credit and debit card transaction history and account details which is used by millions of users on a daily basis
- Collaborate with other developers to model and design new RESTful API interfaces
- Used both Spring Boot and NestJS frameworks to develop these services
- Added unit, integration and performance tests to ensure high code quality

Agile Software Engineer, TribalScale, Toronto, Canada **Jul/18 – Jun/20**

- Developed backend APIs for retrieving and booking gas and parking orders for given search parameters using NodeJS, AWS tools (Lambda functions, Kinesis, DynamoDb)
- Worked on developing a backend server for accessing the current work allocations using Spring-boot, GraphQL and Kotlin
- Worked on an Android media player app for listening to live radio stations and podcasts with more than 2 million daily active users
- Used agile methodologies (Extreme programming) during the entire software development cycle including TDD, pair-programming

Software Developer, TradeRev, Toronto, Canada **Oct/16 – Jun/18**

- Delivered new features for both the TradeRev and Adesa Upstream Android apps which is used by thousands of users on a daily basis.
- Worked with the product, design and QA teams to refine requirements and prototypes according to the product roadmap.
- Developed an offline feature using Realm DB to allow users to use the Android app offline.
- Used MVP architecture with best software development practices.

- Wrote unit tests using Mockito and debugged critical application issues such as crashes, memory leaks and concurrency problems.
- Responsible for reviewing production issues, training junior Android developers.

Research Associate, Technology Information, Forecasting and Assessment Council (TIFAC), India

Sep/13 – Jun/14

- Developed web-applications using PHP for use within the organization.
- Maintained network performance by network monitoring and analysis.

Research Intern, Bell Labs Research, India

Jan/13 – Apr/13

- Conducted a research study to understand the concerns of Indian web users towards online advertising.
- Developed a tool using Java to gather the information of all online ads present in a given list of web URLs.
- Developed a selective ad-block plugin for Firefox browser using JavaScript to filter sensitive ads.

SELECTED PROJECTS

- **FireLock:** An Android Lock library to allow developers to re-authenticate their users conveniently and securely.
- **FoodBox:** An Android app to allow users to keep a track of the food available in their fridge and use it up before it expires by sharing their food with other users.
- **Ad Filter Browser Plugin-** Developed a modified version of the popular Adblock plus browser plugin for Firefox using JavaScript, which blocks online ads containing sensitive content.
- **Ad-Extractor Tool-** Implemented a Java tool to extract and identify the content of textual and image-based online ads present on a given list of web-pages using Selenium web-driver.
- **NGO Information Management Suite-** Collaborated on building a web-based information management system for an NGO for cataloguing their work, evaluating the NGO and its employee's performance.

EDUCATION

University of Waterloo, Canada

Sept/14 – Aug/16

- Master of Mathematics, Computer Science.

CGPA: 88.20/100

- Relevant Coursework: Introduction to Artificial Intelligence, Advanced Topics in HCI- Humans in the Loop Systems, Cloud Computing and Software Defined Networking.

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), India

Jul/09 – May/13

CGPA: 8.55/10

- Bachelor of Technology, Information and Communication technology (ICT).
- Relevant Coursework: Data Structures and Algorithms, Introduction to Graph theory, Operating System, Database Management System, Introduction to Cryptography, System and Network Security, Security Protocols, Network Protocols, Sensor Network Systems.

PUBLICATIONS

- Ask me again but don't annoy me: Evaluating Re-authentication strategies for smartphones, SOUPS 2016
Lalit Agarwal, Hassan Khan, Urs Hengartner, University of Waterloo, Canada
- Do Not Embarrass: Re-Examining User Concerns for Online Tracking and Advertising, SOUPS 2013
Lalit Agarwal, Nisheeth Shrivastava, Sharad Jaiswal, Saurabh Panjwani, Bell Labs Research, Bangalore, India

ADDITIONAL EXPERIENCE

- Graduate Student Ambassador, Computer Science Department, University of Waterloo, Canada
- Teaching Assistant at the University of Waterloo, Canada for the following courses: Computer Security and Privacy, Algorithm Design and Data Abstraction and Designing Functional Programs