

Shobhit Puri

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HIGHLIGHTS

- Proficient in Android Development with 8 years of experience.
- Led an Android team and a full-stack team of more than 10 members for over 2.5 years.
- Experienced developing large scale Android and iOS apps with over 10 million downloads.
- Have helped over 2.7 million developers with [StackOverflow contributions](#) of more than 600 Q&As.
- Technical Editor in Android Team at [RayWenderlich.com](#). It has over 4 million monthly page views.
- Amazon Web Services [Certified Solutions Architect - Associate](#) with the test score of 95%.
- Authored an open source [Android UI library](#) with more than 200,000 downloads.
- Awarded Mitacs Accelerate Scholarship during masters at University of Toronto worth \$30k.

WORK

EXPERIENCE

Realtor.com [Vancouver, Canada]

- **iOS Engineer** Mar'19 – May'20
 - Developed new features, maintained CI/CD and migrated to Xcode 11 for Realtor.com iOS app.
- **Senior Android Engineer** May'18 – Feb'19
 - Helped develop Realtor.com Android app, which has 4.5 ratings and over 10 million downloads.
 - Enhanced the app quality by reducing Application Not Responding (ANR) errors by 75%.

TradeRev [Toronto, Canada]

- **Android Lead & Solution Architect** Sep'15 – May'18
 - Led an Android team to develop the TradeRev Android app from scratch for vehicle auctions.
 - Responsible for making architectural decisions including tools and frameworks to use for the app.
 - Helped setup & maintain automated deployment, continuous integration, git hooks for the project.
 - Took initiatives to maintain detailed documentation and improve code quality. Introduced MVP architecture, JUnit testing, UI testing using Espresso and rigorous code reviews.
 - As a solution architect, helped design efficient backend solutions. Stack: AWS, Grails, Node.js.
- **Software Development Team Lead** Aug'16 – Aug'17
 - Led a team of full-stack developers who worked on cross-platform feature developments.
 - Took responsibility of features by creating detailed technical plans after collaborating with project managers, vetting the design mocks, and mentoring the team members during development.
- **Software Engineer** Sep'14 – Sep'15
 - Helped develop their Android app, Grails backend and AWS cloud infrastructure.

SecureKey Technologies [Toronto, Canada]

- **Mobile App Developer** Jan'14 – Aug'14
 - Developed multiple Android and iOS pilot applications for providing secure passwordless logins. These included those for Government of British Columbia, Telus, Rogers and Bell.
- **Software Developer Co-op** May'13 – Dec'13
 - Developed new mobile payment solutions that enabled users to pay with QR Code, Bluetooth Low Energy and NFC. Did exploratory research on how to prevent Android app reverse engineering.

HOVR.IT [Toronto, Canada]

- **Software Consultant** Feb'13 – Mar'13
 - Implemented image hashing to search images from millions of images in fraction of a second.

Karlsruhe Institute of Technology [Karlsruhe, Germany]

- **Research Internship** Feb'12 – Jul'12
 - Developed a dropbox-like solution to access petabytes of scientific datasets in sustainable way.

EDUCATION

University of Toronto [Toronto, Canada]

Sept'12 – Dec'13

Master of Science in Applied Computing. GPA: **3.94/4.0**

Indian Institute of Information Technology [Allahabad, India]

June'08 – July'12

Bachelor of Technology in Information Technology. GPA: 8.56/10

TECHNICAL SKILLS

Android: Java, Kotlin, Android Studio, MVVM, MVP, RxAndroid, Retrofit, UI Automation (Espresso), Unit Tests (JUnit, Mockito), Databases (SQLite, Realm), Event Bus, Material Design, Dependency Injection, Glide, LeakCanary.

iOS: Swift, Xcode, UIKit, Fastlane, Apple Maps, TestFlight, Deep link, Universal links.

Tools/Platforms: Git, Firebase, Amazon Web Services, Jenkins, Jira, Salesforce.

Other: C, C++, Groovy, HTML, REST, JSON, MVC, OpenCV, OpenGL, Socket.io, Agile.

MOBILE APP DEVELOPMENT PROJECTS	Realtor.com App (Android^[1] and iOS^[2])	May'18 – Present
	Helped develop Realtor.com iOS and Android apps to enable millions of users find their dream home.	
	TradeRev App (Android)^[3]	Sept'14 – May'18
	Developed an Android app from scratch for TradeRev. It is an auctioning platform for used cars.	
	Increase Font Size Widget^[4](Android)	July'16 – Aug'16
	Developed an Android widget to enable users to increase device font size beyond what the system settings allows. The inspiration came while volunteering with seniors at NYCH (North York).	
	British Columbia Services Card App (Android)	June'14 – Aug'14
	Helped develop a POC app to enable more than 1 million BC Services Card holders to login to BC online services . Users could tap the card on their Android devices having NFC.	
	Mobile Credential Service for Telus, Rogers and Bell (Android and iOS)	Feb'14 – June'14
	Developed a POC Android app to enable secure login into merchant websites using the SecureKey QuickCode. The app gets the request from merchant by scanning QR code or push messages. Verified attributes from service provider are sent back leveraging SecureKey Briidge.net Exchange product.	
OTHER PROJECTS	Mobile Payment Solution using Bluetooth Low Energy dongle (iOS)	Nov'13 – Dec'13
	Developed a proof of concept iOS app using iOS BLE API and BLE USB Dongle. It enables users to pay at a Point of Sale by being in its proximity. User details gets transferred to the terminal through the beacon, when in proximity.	
	Mobile Payment Solution using NFC (Android)	Sept'13 – Oct'13
	Helped develop an app to implemented Host Card Emulation on Android. Much before Android Pay launched, it enabled users to pay at the Point of Sale by tapping their Android phones.	
	Mobile Payment Solution using QR Code (TPoST Android app)	July'13 – Sept'13
	Developed a POC Android app to enable users to pay at Point of Sale terminals using QR Code. On request from PoS, TPoST app displays a QR code with the transaction details. The user's app scans the code and sends card data to the url present in QR code. TPoST gets the card data by polling the URL and completes the transaction at the terminal via a bluetooth HID USB dongle.	
	Mobile Identity as a Service (Android)	May'13 – July'13
	Created a POC Android app to make it the centre of users authentication. It removes the need of always creating new user accounts whenever a user goes to a new merchant site. It also provides a convenient and trusted way to share the already verified information with the new merchants.	
	Intelligent Journaling App for Drug Relapse Prevention (Android)	Feb'13 – April'13
	Developed an app to help individuals with addictive disorders identify craving patterns. It tracked moods, cravings, identified time and locations which trigger high craving levels. If user entered in vulnerable zone, it suggested users with intervention strategies.	
PRO BONO EXPERIENCE	Image hashing Algorithm	Feb'14 – March'14
	Developed a tool using image hashing algorithm to do an image search from millions of images. Algorithm accounted for resized or tormented version of images. Implemented in C using pHash.	
	Animation of Gangnam style dance - OpenGL	Oct'12 – Dec'12
	Implemented using C and OpenGL, an animation of the music video for the song Gangnam Style.	
	Brain Tumour classification, extraction and volumetric analysis	Jan'11 – Feb'12
OTHER ACHIEVEMENTS	Developed an algorithm to classify brain tumour from MRI scans with 90% accuracy. It also performed volumetric analysis of the tumor. Implemented using Neural Networks and Wavelet transforms.	
	Book reading mechanism for visually impaired	July'10 – Dec'10
	Developed a tool to read text out loud from a physical textbook. Used image improvement algorithms, OCR and text to speech.	
	<ul style="list-style-type: none"> Developed Miracle Messages mobile apps to help reunite homeless with loved ones. [San Francisco] Volunteered at a North York Community Center to help seniors use technology. [Toronto, Canada] Volunteered at 'Prayaas' to teach underprivileged kids who couldn't afford school. [Allahabad, India] 	
	<ul style="list-style-type: none"> National level Badminton tournament: Runner-up (doubles). [IIIT Gwalior, India] [2011] National level robot combat programming contest: Third position. [IIIT Allahabad, India] [2011] All India Engineering Entrance Exam: Ranked 4487 amongst ~1 million candidates. [2008] District level Basketball tournament: Member of the runner up team. [Bareilly, India] [2002] Mathematics: Awarded for excellence in middle school & high school. [Bareilly, India] [1998, 2004] 	
REFERENCES	<p>[1] Realtor.com Android - https://play.google.com/store/apps/details?id=com.move.realtor</p> <p>[2] Realtor.com iOS - https://itunes.apple.com/us/app/realtor-com-real-estate-search/id336698281</p> <p>[3] TradeRev - https://play.google.com/store/apps/details?id=com.nthgensoftware.traderev.android</p> <p>[4] Font Widget - https://play.google.com/store/apps/details?id=com.seniortechnneeds.widget.fontsize</p>	