Shobhit Puri

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HIGHLIGHTS

- Proficient in Android Development with 6 years of experience. Led Android team for 2.5 years.
- Experience of working on a large scale Android app with over 10 million downloads.
- Helped over 2.3 million developers with Stack Overflow contributions.
- Certified Solutions Architect - Amazon Web Services. (Test Score: 95%)
- Awarded $30k Mitacs Accelerate Scholarship during masters.
- Starpreneur at Nurture Talent Academy. It is India's first training institute for entrepreneurs.
- Was amongst top 0.5% of 1 million applicants in All India Engineering Entrance Examination 2008.

WORK EXPERIENCE

iOS Engineer (Contract), Realtor.com [Vancouver, Canada] — Mar'19 – Present
- Helping develop and maintain Realtor.com iOS app. Also contributing to improving processes.

Senior Android Engineer (Contract), Realtor.com [Vancouver, Canada] — May'18 – Feb'19
- Helped improve Realtor.com Android app[1], which has 4.5 ratings and over 10 million downloads.
- Enhanced the app's quality by reducing ANR errors by 75%, revamped the app's main screen, polished the UI and refined revenue sensitive features like lead forms and deep links.

Android Lead & Solution Architect, TradeRev [Toronto, Canada] — Sep'15 – May'18
- Led an Android team to develop TradeRev Android app [2] from scratch.
- Responsible for making architectural decisions for the app including tools and frameworks to use.
- Helped setup & maintain automated deployment, continuous integration, git hooks for the project.
- Took initiatives to maintain detailed documentation and to improve the code quality by introducing MVP architecture, JUnit testing, UI testing using Espresso and rigorous code reviews.
- As a solution architect, helped design efficient and scalable backend solutions.

Software Development Team Lead, TradeRev [Toronto, Canada] — Aug'16 – Aug'17
- Lead 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, TradeRev [Toronto, Canada] — Sep'14 – Sep'15
- Worked on creating new features and maintaining TradeRev Android app, Grails backend and internal deployment tools with Amazon Web Services as the provider.

Mobile App Developer, SecureKey Technologies [Toronto, Canada] — Jan'14 – Aug'14
- Developed a number of Android and iOS pilot applications, including those for Government of British Columbia, Telus, Rogers and Bell for providing secure password less logins.

Software Developer Co-op, SecureKey Technologies [Toronto, Canada] — May'13 – Dec'13
- Developed new mobile payment solutions that enable users to pay with QR Code, Bluetooth Low Energy (proximity) and NFC. Did exploratory research on how to prevent Android app decompiling.

Software Consultant, HOVR.IT [Toronto, Canada] — Feb'13 – Mar'13
- Implemented image hashing to perform image search from millions of images in fraction of a second.

Research Internship, Karlsruhe Institute of Technology [Germany] — Feb'12 – Jul'12
- Implemented in C, a dropbox like solution for providing an easy and sustainable way of accessing the petabytes sized scientific datasets that existed at the local datacenter.

EDUCATION & CERTIFICATIONS

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

AWS Certified Solutions Architect - Associate — Sept'15 – Sept'17
Certified by: Amazon Web Services, Score: 95%

TECHNICAL SKILLS

Languages & Libraries:	Java, Kotlin, C, C++, Swift, Groovy, HTML
Android:	Material Design, MVP, RxAndroid, Retrofit, UI Automation (Espresso), Unit Tests (JUnit, Mockito), Databases (SQLite, Realm), Firebase, Fabric, Event Bus, View Injection, Stetho, Instabug, Glide, Instant Apps.
Tools & Services:	Git, Amazon Web Services, Jenkins, IntelliJ, Android Studio, Photoshop.
Other:	REST, JSON, MVC, Salesforce, OpenCV, OpenGL, Socket.io, Agile.

MOBILE APP DEVELOPMENT PROJECTS	**Increase Font Size Widget[3] (Android)**	July'16 – Aug'16

Helped create an Android widget to enable users to increase device font size beyond what is allowed by the system settings. The inspiration came while volunteering with seniors at NYCH (North York).

British Columbia Services Card App (Android)   June'14 – Aug'14

Helped develop an Android app to enable more than 1 million BC Services Card holders to login to BC online services, by tapping the card on their Android devices having NFC.

Mobile Credential Service for Telus, Rogers and Bell (Android and iOS) Feb'14 – June'14

Developed proof of concept app to securely login into merchant websites using the SecureKey Quick-Code. 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.

Mobile Payment Solution using Bluetooth Low Energy dongle (iOS)   Nov'13 – Dec'13

Developed a proof of concept iOS app using iOS BLE API's and BLE USB Dongle to enable users to pay at a Point of Sale by just being in its proximity. On bringing device in the proximity of the beacon, a session is established and card details are transferred to the terminal through the beacon.

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 was launched, it enabled users to pay at the Point of Sale by tapping their Android phones. It was tested successfully at Tim Hortons and Second Cup payment terminals.

Mobile Payment Solution using QR Code (TPoST Android app)   July'13 – Sept'13

Developed proof of concept Android apps 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 an app to make it the centre of users authentication and to remove the need of creating new user account whenever a user goes to a new merchant site. It provided 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

Using the journal data entered by user overtime, the Android app pinpoints situations, locations etc that can lead to drug cravings, that should be targeted in for intervention strategies. It helps improve their emotional state, identifies their craving zones and notifies when they are in proximity of them.

OTHER PROJECTS	**Image hashing Algorithm**	Feb'14 – March'14

Implemented in C, an image hashing algorithm which given an input image, finds an exact, re-sized version or tormented version of an image from millions of images within a fraction of second.

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

Implemented using Neural Networks and Wavelet transforms, algorithm for classification, extraction, and volumetric analysis of brain tumour from MRI images.

Human Emotion Recognition from Bollywood Music   July'11 – Dec'11

Using rough sets and FFT, it categorized the songs based on emotions they elicit. Our focus was mainly on Hindi Songs. We collected 380 songs of different era and genre whose tagging was done by 100 volunteers, on a scale of -10 to +10 for emotions of Happiness, Sadness, and Anger.

Book reading mechanism for visually impaired   July'10 – Dec'10

Using image improvement algorithms, OCR and text to speech, the characters from the improved pic of the book page were identified and then read out loud by the software.

PRO BONO EXPERIENCE	• Helped develop Miracle Messages apps to help reunite homeless with their 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]

ACHIEVEMENTS	• Runner-up (doubles) at national level Badminton tournament at IIIT Gwalior.	Jan'11
	• Third position at national level robot combat programming contest at Effervescence.	Sept'11
	• Fashion show winner and group dance runner-up at university festival.	Oct'09
	• Awarded two proficiencies for Mathematics in middle school and high school.	1998 and 2004
	• Member of the Basketball team, that secured 2nd place in District level tournament.	2002

REFERENCES	[1] Realtor.com - https://play.google.com/store/apps/details?id=com.move.realtor [2] TradeRev - https://play.google.com/store/apps/details?id=com.nthgensoftware.traderev.android [3] Font Widget - https://play.google.com/store/apps/details?id=com.seniortechneeds.widget.fontsize