

Shobhit Puri

LinkedIn: <http://linkedin.com/in/shobhitpuri>

Website: <http://shobhitpuri.com>

HIGHLIGHTS

- Leading Android teams for the past 2.5 years.
- Proficient in Android Development with 5+ year experience.
- Certified Solutions Architect - Amazon Web Services. (Test Score: 95%)
- Architected and created multiple production level apps from scratch.
- Awarded Mitacs Accelerate Scholarship during masters.
- Starpreneur at Nurture Talent Academy. It is India's first training institute for entrepreneurs.
- Experienced in working remote full-time.

WORK EXPERIENCE

Android Lead & Solution Architect, TradeRev (Toronto, Canada) Sep'15 – Present

- Have been working remotely full-time from Vancouver Area, British Columbia since Fall 2017.
- Leading an Android team to develop [TradeRev Android app](#) ^[1] since Fall 2015.
- 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 multiple initiatives to maintain code quality by introducing MVP architecture, JUnit testing, UI testing using Espresso and rigorous code reviews.
- Maintaining detailed documentation of the project and any improvements required in the code base.
- As a solution architect, helping to design efficient and scalable backend solutions.

Software Developer Volunteer, Miracle Messages (San Francisco, USA) Jun'17 – Present

- Working remotely to help develop and maintain [Miracle Messages iOS app](#) ^[2], Android app, Backend for the non-profit organization that helps reunite homeless people with their loved ones.

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.
- Worked on [openMIDaaS \(Mobile Identity as a Service\)](#) Android app, library and hub.

Software Consultant, HOVR.IT (Toronto, Canada) Feb'13 – Mar'13

- Implemented in C, an image hashing algorithm that is capable of finding an image (even if distorted) from a database of millions of images in a fraction of 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

Certified by: [Amazon Web Services](#), Score: 95%

TECHNICAL SKILLS

Languages & Libraries: Java, C, C++, Grails, Groovy, Swift (beginner), Socket.io, OpenGL, MySQL, HTML, OpenCV.

Android: Android SDK, Material Design, MVP, UI Automation (Espresso), Unit Tests (JUnit, Mockito), Databases (SQLite, Realm), Firebase, Fabric, Retrofit, Event Bus, View Injection, Stetho, Instabug, Glide, RxAndroid.

Tools & Services: Git, Amazon Web Services, Jenkins, IntelliJ, Android Studio, Photoshop.

Other: REST, JSON, MVC, Agile, API Development, MixPanel, Salesforce.

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 Android App for Drug Relapse Prevention 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

- Volunteered at 'North York Community House' computer club to help seniors with tech. (Canada)
- Volunteered at 'Prayaas' to teach underprivileged kids who couldn't afford school. (India)

ACHIEVEMENTS

- Runner-up (Doubles) at National level Badminton tournament at IIIT Gwalior. Jan'11
- Held third position in Robot Combat Programming contest at Effervescence. Sept '10 & Sept'11
- Part of the winner team in a fashion show competition, and the first runner-up team in a group dance competition, in the National level fest Effervescence. Oct'09
- Was awarded two proficiencies for Mathematics during my school tenure. 1998 and 2004
- Member of the Basketball team, that secured 2nd place in District level tournament. 2002

REFERENCES

- [1] TradeRev - <https://play.google.com/store/apps/details?id=com.nthgensoftware.traderev.android>
- [2] Miracle Messages - <https://itunes.apple.com/us/app/miracle-messages/id1165313701>
- [3] Font Widget - <https://play.google.com/store/apps/details?id=com.seniortechneeds.widget.fontsize>