Shobhit Puri

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HIGHLIGHTS

- Have been enjoying developing Android applications for almost 4 years.
- Amazon Web Services - Certified Solutions Architect. (Test Score: 95%)
- Was awarded Mitacs Accelerate Scholarship worth 30,000$ during masters in 2013.
- Was a Starpreneur at Nurture Talent Academy. It is India's first training institute for entrepreneurs.
- Was amongst top 0.5% students in All India Engineering Entrance Examination in 2008. Secured All India Rank 4487 amongst almost 800,000 students who appeared for the same.
- Received All India Rank 5879 out of almost 300,000 students in the prestigious IIT-JEE Entrance Examination in 2008.

WORK EXPERIENCE

Software Development Team Lead, TradeRev (Toronto, ON)   August '16 – Present
- Leading a team of full-stack developers working on cross-platform feature developments.
- Taking responsibility of features by creating detailed technical planning after collaborating with project managers, vetting the design mocks, and helping team members develop it.

Android Platform Lead & Architect, TradeRev (Toronto, ON)   September '15 – Present
- Leading a team of Android devs to create a rejuvenated TradeRev Android app 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 initiative 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.

Software Engineer, TradeRev (Toronto, ON)   September '14 – September '15
- Worked on creating new features and maintaining TradeRev Android app and backend (written in Grails and running on AWS).

Mobile Application Developer, SecureKey Technologies (Toronto, ON)   Jan '14 – Aug'14
- Worked with the team on number of Android and iOS applications, including those for Government of British Columbia, Telus, Rogers and Bell.

Software Developer Co-op, SecureKey Technologies (Toronto, ON)   May '13 – Dec'13
- Worked on developing 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, ON)   Feb'13 – March'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 – July'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

University of Toronto   Sept'12 – Dec'13
*Master of Science in Applied Computing. GPA: **3.94/4.0***
- *Courses:* Creative Mobile Application Development, Cloud Computing, Technical Entrepreneurship, Communication for Computer Scientist.

Indian Institute of Information Technology, Allahabad (India)   June'08 – July'12
Bachelor of Technology in Information Technology. GPA: 8.56/10
- *Courses:* Data Structures, Design of Algorithms, Operating Systems, Object Oriented methodology, Software Engineering, Database Management, Image Processing, Artificial Intelligence, HCI.

TECHNICAL SKILLS

Platforms:	Android, iOS, Linux.
Android:	Model-View-Presenter, Android SDK, Material Design, UI Automation (Espresso), Unit Tests (JUnit, Mockito), Databases (SQLite, Realm), Firebase, Fabric, Retrofit, Event Bus, View Injection, Android Studio.
Languages & Libraries:	Java, C, C++, Grails, Groovy, MySQL, HTML, Swift (beginner), Node.js (beginner), OpenGL, OpenCV.
Tools & Services:	Git, Amazon Web Services, Jenkins, IntelliJ, Matlab, Photoshop.
Other:	REST, JSON, Agile development, API Development.

CERTIFICATIONS

AWS Certified Solutions Architect - Associate (Certified by: Amazon Web Services, Score: 95%)

MOBILE APP DEVELOPMENT PROJECTS	**Alter Font Size (Android Widget)**	July'16 – Aug'16

Alter Font Size (Android Widget) — 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 — Oct'12 – Dec'12
Implemented using C and OpenGl, an animation of the music video for the song Gangnam Style.

Chrome extension that displays statistics of user's Facebook account — Nov'12 – Dec'12
It helps users see total wall posts, unread inbox messages, pending friend requests, total friends and friend who unfriends him/her and also makes them aware of time spent on Facebook each day.

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 seniors at North York Community House to consume mobile apps to lead a better life.
- Volunteered at "Prayaas" NGO to teach underprivileged kids who couldn't afford mainstream school.

ACHIEVEMENTS

- Runner-up (Doubles) at National level Badminton tournament at IIIT Gwalior. — Jan'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
- Awarded for academic excellence, by Indian Medical Association, Bareilly (India). — 2008
- 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