Ronak **Patel**

SCIENTIST · ENGINEER · INNOVATOR

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"I code, I am code."

Education

University of Windsor   *Windsor, ON, Canada*

MASTER OF SCIENCE - COMPUTER SCIENCE WITH COOP   *January 2014 - July 2016*

- I have completed this degree with Grad Point 9 out of 13. I got GSS Scholarship 2014. It was Research based program and my Research was on Artificial Intelligence and Augmented Reality. I was also Founder and President of my university's hackathon "HackUWIN 2014".

Gujarat Technological University   *Ahmedabad, Gujarat, India*

BACHELOR OF ENGINEERING - COMPUTER ENGINEERING   *July 2009 - June 2013*

- I have completed this degree with CGPA 6.69 out of 10. I was Co-Founder and Administrator of our collage's technical club "TechTitanz".

Experience

XE.com Inc.   *Newmarket, ON, Canada*

SOFTWARE DEVELOPER   *January 2017 - Ongoing*

- I am part of Android Team at XE.com which is responsible for whole Android frontier of XE ranging from mobile to wearable platform. XE is the favourite currency converter website having huge user base.
- I am also working on chat and voice bots. I design Bot Framework that powers all voice and chat bots of XE.
- I have been working on XE Currency mobile and wearable application alongside of XE Currency Alexa Skill and other voice and chat bots.
- I am using following Technologies at XE: AWS, Node.js, NPM, Android, Android Wear, Dagger 2, Retrofit, Butter Knife, GIT.

Royal Bank of Canada   *Toronto, ON, Canada*

PROTOTYPE TECHNICAL SYSTEM ANALYST   *September 2014 - April 2015*

- I was part of a team called "Applied Innovation" which is a think tank of RBC. Applied Innovation makes Prototypes/Proof of Concepts(POCs) of innovative ideas hence, I got great experience in Enterprise Innovation.
- I have worked on two main projects, "NymiAuth & NymiTran" and "AIFeedback Web Application", more details about these projects are available on my Portfolio
- I was using following Technologies during my internship at RBC: Android, HTML, CSS, JavaScript, PHP, MySQL, Apache HTTP Server, Firebase, NymiBand, GIT.

UGVCL   *Gandhinagar, Gujarat, India*

DEVELOPER INTERN   *June 2012 - May 2013*

- UGVCL is a power distribution company in Gujarat, India. They have Software Development team which mainly develops software tools for internal employee.
- I have worked on a project called "Transformer Management System" which was tool to track every detail of Transformers, more details about this project are available on my Portfolio.
- I was using following Technologies during my internship at UGVCL: HTML, CSS, JavaScript, jQuery, PHP, MySQL, Apache HTTP Server.

Rutav Engitronic Systems   *Gandhinagar, Gujarat, India*

FREELANCE DEVELOPER   *February 2013 - March 2013*

- Rutav Engitronic Systems is an electronics and electrical hardware making company. They were looking at making a prototype of GPS + GPRS/GSM based taxi tracking and controlling system. I joined as a freelance developer with my team of 3 other developers.
- I worked on a project called "Vehicle Tracking and Control System" which was a web application where one can see real-time location of their car, more details about this project are available on my Portfolio.
- I was using following Technologies during my work at Rutav Engitronic Systems: HTML, CSS, JavaScript, PHP, MySQL, Apache HTTP Server, Arduino, Raspberry Pi

Skills

Programming Languages	Java, JavaScript, C, Python, C++, C#
Mobile Development	Android, Android Wear, Gradle, Dagger 2, Retrofit, Butter Knife
Web Development	PHP, HTML, CSS, JavaScript, NodeJS, NPM
Cloud & Database	AWS, IBM Bluemix, MySQL, Firebase
Tools	GIT, Android Studio, Eclipse, Netbeans
Application Server	Apache HTTP Server, Apache Tomcat
Desktop Development	.NET, Windows, WPF
Hardware Development	Arduino, Particle Photon, Intel Edison, Mediatek LinkitOne, Tessel, Raspberry Pi
Devices	NymiBand, Estimote Beacons, Microsoft Kinect, Amazon Echo

Research

Search Space Representation of Near Field 3D Scene using Microsoft Kinect *University of Windsor*
January 2014 - July 2016

- This thesis proposes a novel method which generates a search space representation from the perceived information from an AR system, specifically Microsoft's Kinect. The output can provide a basis to apply existing knowledge of pathfinding to augmented reality.

Extracurricular Activities

HACKATHONS & PROJECTS

S 2017	**Apollo**, A GM Car Infotainment application that act as car AI Assistant.	*GMHackAI*
F 2016	**Microlancer**, An Android application that provides location aware micro job search platform.	*RBC NGI*
F 2016	**Thoth**, An Android application that allow users to use internet without internet.	*Hack the North*
W 2016	**AlexaKeep**, A Amazon Echo/Alexa application that can store day to day information.	*Amazon-CL*
W 2016	**Machine Learning**, Basics, Algorithms, Implementation.	*UofTHacks*
F 2015	**Image Processing**, Basics, Algorithms, Advanced, Implementation.	*HackWestern*
F 2015	**Exgress**, An Android application/game similar to Ingress that can be played in AR using Microsoft Band.	*YHack*
F 2015	**RingerForce**, A Web application that provides location aware micro job search platform.	*HackGT*
F 2015	**Parko**, A platform (Android + Arduino) that allows user to search and book open parking spaces.	*Hack the North*
F 2015	**InPACT**, An Android application rates good deeds of community from micro commitments for good.	*MHacks 6*
S 2015	**Idea PiFi**, A Raspberry Pi based router that allows user to use anyone's WiFi with nominal charges.	*BattleHack 2015*
W 2015	**Praxis**, A platform that allows user to earn money from displaying advertisements on their MeUs.	*UofTHacks*
W 2015	**Eventose**, An Android application which uses BLE Beacons for an event management.	*MHacks 5*
F 2014	**Internet of Things**, Basics, Implementation.	*HackWestern*
F 2014	**Augmented Reality**, Basics, Advanced, Algorithms, Implementation.	*Hack the North*
S 2014	**Idea NymiShare**, A platform (Android + NymiBand) which allows user to share their digital visiting card.	*Nymi Hackathon*
S 2014	**Artificial Intelligence**, Basics.	*Mastercard NEXT*
W 2014	**Idea HelpBuddy**, A Web application which allows user to call for community help at their location.	*HackIllinois*
F 2013	**Idea SIMHack**, An Android application that can secretly store data on user's SIM Card.	*Azoi Hackathon*
S 2013	**ArduiOArt**, A robot that can draw on A4 size paper from any image provided.	*GujAThon*

LEADERSHIP

S 2014	**HackUWIN 2014**, Founder & President	*UWindsor*
2009-2013	**TechTitanz Club**, Co-Founder & Administrator	*SVBIT, GTU*

Certificate

Machine Learning Engineer *Udacity.com*
July 2017 - Ongoing

- This nanodegree was co-created with Kaggle https://www.kaggle.com/