

RUTURAJ R. RAVAL | +1 226 961 5777 | raval115@uwindsor.ca

3140 Peter Street, Windsor Ontario N9C 1H3 Canada | ruturaj.raval@ruturaj.me | www.ruturaj.me | www.linkedin.com/in/rruturajr/ | MSc. Computer Science-Research student at University of Windsor

Educational Qualification

Master of Science – Computer Science 01/18-04/19
University of Windsor Windsor, Canada
Courses- Virtual reality, Non-emerging traditional database, Directed special studies, Pattern recognition (Adv. AI, Machine learning), Deep learning for Vision and NLP & Thesis

Bachelor of Engineering – Computer Engg. 08/11-06/15
Gujarat Technological University Surat, India
Courses- 40+ courses including participation in the ‘International Exchange Program’

Professional Employment history

Graduate Assistant & Lab Instructor 06/18-Present
University of Windsor Windsor, Canada
To conduct courses as a lab instructor & graduate teaching assistant for ‘60-140 & 60-141: Introduction to Programming & Algorithms 1 & 2’ and marking assignments, exam papers, conducting office hours to solve queries of the students.

Research Assistant 01/18-Present
University of Windsor Windsor, Canada
Working on a *thesis* work including research based on ‘Improvement of *POMDP* Model for Improvement of Intention Discovery including Emotion in User Import’, which is based on human-computer interaction, dialogue management, AI, reinforcement learning, 3D models, etc.

Deputy CTO / Android app developer 02/17-09/17
Vitebox Mumbai, India
Android app development, training the junior developers, managing mobile database, UI/UX app designer, social media handling, to create discrete automation of an idea, analytical approach towards project, development of the app for different user device(s) and for different types of users, maintenance of the app, testing, managing data on the server

Junior Android & CouchDB developer 09/15-01/17
Stradefi SA Mumbai, India & Geneve, Switzerland
Design, analyse, develop, test and integrate the development in an existing app using CouchBase (NoSQL DB), as an R&D, select high tech open source components, evaluate test and deliver them for possible integration into the existing app, usage of TensorFlow embarked on Android, semantic word filter and searching algorithms, call recorder, advanced text editor, OCR based app, contact management application, etc.

Intern Android & Cloud developer 05/14-06/15
Advance Systems Corp. Surat, India & Mumbai, India
I applied many different modules while learning them like, Android, Native Android, Cloud, DB, etc. and learnt from planning to plotting, from designing to deploying, from testing to maintaining, from leading the team to be a part of the team. We worked on the OCR, Image processing, usage of NDK, etc.

Skills

Public speaking, Team leading, Communication skills, Presentation skills, Marketing research, Strategy, Customer service, Trained juniors, engineers, Police staff, etc.

Professional technical skills

IDE- Android studio, Eclipse, Visual Studio, Dreamweaver, Photoshop, Postman, Illustrator, Unity, IDLE, Weka, Dia, Atom, AltovaUML, etc.

Languages- Java, C++, XML, CSS, HTML, Php, Python, Kotlin, C# etc.

Platforms- Android, Windows, AR-VR (MR), MS Office tools, etc.

Database- SQLite DB, Couch DB, MySql, PhpMyAdmin, NoSql

Technologies- Lucene, Tensorflow, OCR, Image processing, NDK, POMDP, DWT, 3D models, Classification & Clustering on the dataset, machine-deep-reinforcement Learning, Vision, NLP, etc.

Capabilities- SDLC management, DFS, Research, discrete automation development before idea execution, analytical approach, planning to plot, designing to deploying, maintaining to testing, data management, social media handling, semantic word filter and searching algorithms, etc.

Projects

Spdybot (Speedy Spider-y Robot)

A web crawler to crawl the opinion to mine positive, negative, neutral opinions for one such topic.

Machine learning and Patter recognition approaches on Prostate Cancer data

Implementation of classification and clustering using different machine learning algorithms like SVM, cross-validation, k-NN, Naïve Bayes, k-means, etc.

Google AI open images – visual relationship track

Deep learning using vision and NLP to detect the object and track the relationship between the objects in the image using the language manipulation.

Anti-Glossophobia AR-VR (Mixed Reality) approach

To recover from the speech anxiety, using the augmented reality and virtual reality in a mixed reality environment.

Using collaborative filtering with frequent sequential patterns mining for product recommendation systems in multiple E-commerce Databases

The research was conducted to represent how improvements can be made for product recommendations using the lifetime-user prediction technique.

EvGenie

Schedule, sync events; snap, snatch docs, images, files, videos, texts; share the docs, authorize the contribution, moderate and store data in a private secured *SWISS* numeric safe; secure, organize the life (private, familial, professional); view mapped events; receive notifications.

Society management

Manage the society using distinguished 10+ unique features from admin, the super-admin end.

Add & Search

Lucene-based document adds & search engine-based app.

ABC ~ Anytime Block Call & Call recorder

Record, block calls on a customized weekly schedule.

Expense management

OCR, Image processing-based receipt text recognition.

.. and 20+ more small-medium-large projects!

I want to obtain a great opportunity to explore more in the Computer Science field to have knowledge & experience and to offer good amount of work using my research capabilities and creative, critical approach to solve the real-world problem(s). Android Apps can be found at, <https://play.google.com/store/apps/dev?id=8994493553363586433>

References are available upon request / Ready to relocate after my graduation (April 2019)!