Rut Patel

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Skills

Programming

C++ • C • Node.js • Java
JavaScript (React, React Native)
Python • HTML/CSS • SQL • Git
Bash

Concepts & Tools

REST APIs • Database • Docker
Bootstrap 3 • Networking
Compression • Encoding

Education

University of Waterloo

BACHELOR OF COMPUTER SCIENCE
Waterloo, Ontario
Jan 2016 – May 2020 | Waterloo, ON

Achievements

International Level Soccer

CAPTAIN OF INDIA
Won the Junior South-Asian
Games'2014 soccer championship title!

Velocity Incubator

Resident of Canada's most innovative
and entrepreneurship accelerated
startup incubator during Summer'16.

President's Scholarship

UNIVERSITY OF WATERLOO
Awarded to students with graduating
high school average of above 90%.

Coursework

- Object Oriented Programming
- Algorithm Design & Abstraction
- Logic & Computation
- Functional Programming:
- Data Structures

Experience

Autodesk | Software Developer Co-op

May 2017 – Aug 2017 | Toronto, Canada

- Built the first-ever **social platform** individually from scratch that allows *DNA Nanotechnology Community* share their 2D & 3D models to the world.
- Integrated Autodesk's Molecule Viewer enabling people to visualize a **3D model** of a molecule with an option to view it in **Virtual reality (VR)** on the project page.
- Wrote more than **11000** lines of code including *95+ ReactJS* Components & *40+ API endpoints* with *Node.js*
- Worked extensively with: PostgreSQL, AWS S3, Knex, Docker & Git.
- Received an "*outstanding*" co-op evaluation.

Ericsson (ZCOM Systems) | Software Developer Co-op

Sept 2016 – Dec 2016 | Mississauga, Canada

- Implemented a **Graph Visualization Software** to find and visualize the dependencies between metadata files of the whole code base as an interactive graph.
- Built REST API endpoints for ECM (Ericsson Catalog Management) Software to retrieve network usage information of **millions** of people.
- Designed and developed a software in *Java* to parse XML formatted metadata files into JS/SQL files containing script values.
- Received an "*outstanding*" co-op evaluation.

Projects

NutritionIQ | iOS & Android App (MHacks X)   goo.gl/sVdqaA

- Built a cross-platform app with *React Native* which scans an image of a receipt and displays nutrition details of all food items bought.
- Implemented nutrition analysis using *Google Cloud Machine Learning* and *Vision*.

Chamber Crawler 3000 - Villian | C++ Game   goo.gl/SqfHvK

- Developed a *C++* game where a hero character fight monsters, collects treasures and climbs up levels.
- Strictly followed OOP principles and design patterns like: MVC, factory pattern, observer design pattern & visitor design pattern.

GoLocally | Facebook Messenger Chatbot   goo.gl/hr3XHx

- Developed a messenger **chatbot** from scratch that allows a user to find nearby places along with their ratings, open/close details and exact location.
- Integrated with api.ai to enable *Artificial Intelligence* based conversations.