

Dhaval Patel

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College	Rutgers University New Brunswick
Major	Computer and Electrical Engineering



EXPERIENCE

CitiGroup
Summer Tech Analyst

June 2015 – August 2015

Application Developer

- Developed tools to aid users in calculating risk and profit and loss.
- · Constructed an efficient programming algorithm in C# using various data structures to calculate the difference between risk values obtained by any 2 database sources

EDUCATION

- Further developed and enhanced scGateway(risk analytics) tool to provide better user
- Created logic in python to generate a .csv file for start of day Risk data emails
- Developed programming algorithms in Excel Vba and C# for various other business applications

B.A.P.S

June 2007 – Present

Audio/Video team

- Edit and render youth reflection videos using Final Cut Pro and Adobe After Effects to inform parents about their sons/daughters experience
- · Use audio/video mixers to view multimedia from screens and setup projectors with HDMI switcher with high quality cameras to record.
- Professionally shoot photo and video with a DsIr camera to capture raw footage used to created event highlights and reflection videos.



Proiects

Senset Home Security System

- · Constructed a cost effeicient home security system using PIR sensors and ardiuno boards.
- Added various functionalities like notifications alerts when motion is detected in a armed house.

Mobile App Design - Android Development

- · Created an android mobile application using a movie database api to display new movies and provide movie ratings to users along with functionality to help select a movie based on the user's current mood.
- · Developed an application which creates a list for a user to aid them in time managing tasks, grocery shopping, movie watching, etc.

Problem Solving - Java/ C++

- Created a solution in assembly to N-queen problem for any value of N.
- Created an algorithm in c++ to solve a Sudoku puzzle for N up to and including 25.

Web Development - HTML, JS, CSS

Designed a web portfolio using HTML, JS, CSS to portray my background by displaying my skillsets and related experiences.



Related Course Work

Computer Architecture

• Studied designs of modern computer systems, including the design and implementation of key hardware components such as the processor, memory, and I/O device, and software/hardware interface.

Digital Logic Design

• Designed combinational and sequential circuits using Boolean algebra and Karnaugh Maps. Designed with Complex Programmable Logic, ROM, RAM, and Field-Programmable Gate Arrays.

Algorithms: Design and Analysis

• Designed and analyzed essential programming alogithms that a computer programmer is expected to be familiar with.

Computer Programing I & II

· Solution of problems using recursive methods and dynamic data structures. Recursive functions, object oriented programming, text processing, external files, and elementary software engineering.

Other related courses: Computer Program & Problem Solving, Programing Methodology 1 & 2, Electronic Devices, and Linear Systems and Signals, Operating System, Software Engineering





Programming Skills

Java C++ C#

Python/Ruby (Basics) Swift (Basics)



Knowledge

Outstanding leadership qualities Great teamwork skills **Excellent Communication skils** Great Computer Repair skills Wonderful Phone Troubleshooter



Computer

Adobe Photoshop Adobe Illustrator Adobe in Design Adobe After Effects Final Cut Pro



Hobbies

Movies Music Basketball Photography/Videography Video games **Graphic Editing** Football Frisbee