

Dipankar Ghosh

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EDUCATION

State University of New York, Binghamton, NY

Anticipated May 2018

Master of Science in Computer Science

Major GPA: 3.4/4.0

Symbiosis Institute of Technology, Pune, India

May 2016

Bachelor of Technology in Computer Science

Major GPA: 3.3/4.0

RELATED COURSEWORK

-Computer Organization & Architecture (CS 520)

-Programming Languages (CS 571)

-Game Development (CS 580G)

-Software Engineering & Management (CS 580B)

-Programming System & Tools (CS 580U)

-Database Systems (CS 532)

TECHNICAL SKILLS

Languages: Objective-C, C, C#, C++, Java, SQL, Python, JavaScript, HTML, CSS

Softwares & OS: Xcode, Visual Studio, Eclipse, MySQL, Microsoft Office, Windows, Linux, Android Studio, JIRA, CocoaPods

Web: JavaScript, HTML, AngularJS, ReactJS

Version Control: Github, Bitbucket

Databases: SQL, MySQL, Oracle Database 12c, Dynamo DB

Additional: Udemy certified courses in Object Oriented Programming, Cyber Security, Basics of Bash Scripting, Learn-Python

- <https://github.com/dipankarghosh28/Udemy-Certificates>

PROFESSIONAL EXPERIENCE

Development & Research Intern – Defense Research & Development Organization, New Delhi, India

Jan. 15 – June 15

- Worked at Laser Science and Technology Centre (LASTEC) under Scientist Level 'E'
- Developed a Monitoring Software for Laser Based Systems on Visual Studio using C# which involved the designing of user interface of the system, OLEDB connectivity, database development, client-server transmission, logging of data
- The project involved intensive usage of C# coding, windows forms & applications, JDBC connector, MS Excel, MS Access
- <https://github.com/dipankarghosh28/Monitoring-Software>

Student Manager – Sodexo, Binghamton University, Binghamton, NY

Oct. 16 – Jan. 18

- Coordinated event logistics which involves management of student workers
- Worked very closely with diverse range of customers to meet up with their requirements
- Assigned responsibility for inventory control, transport management, setting up of events

ACADEMIC PROJECTS

Smart Sensing Project (CS 580) Binghamton, NY

July 17 – Dec 17

- Created an iOS app to play/pause audio files via motion sensing
- Developed using Objective-C, Accelerometer, AVAudioPlayer, GyroGraphView, AV Audio Framework, Xcode
- <https://github.com/dipankarghosh28/Play-Pause>

Software and Engineering Project Management (CS 580B) Binghamton, NY

June 17 – July 17

- Designed "Healthcare Project Management System" which included project charter document, WBS dictionary, gantt chart, conversion of architecture diagram to code-able components
- This course involved understanding the core components involved in developing a system from scratch; the constraints, business case and scope of the project until the final product
- https://github.com/dipankarghosh28/Healthcare_Management_System

Game Development Projects (CS 580G) Binghamton, NY

Jan. 17 – May 17

- Coded multiple iOS device compatible games using Objective C & Sprite-Kit in Xcode

Bearcat Jump

- Similar to flappy bird, obstacle handling iOS game using Objective-C
- Developed using CGRectIntersectsRect, Arc4random functions
- <https://github.com/dipankarghosh28/BearcatJump>

DPong

- Similar to a ping pong game developed for iOS mobile devices
- <https://github.com/dipankarghosh28/Dpong>

BallJump

- Developed using motionManager & AVAudioPlayer
- <https://github.com/dipankarghosh28/BallJump>

2048d

- 2048 game developed for iOS phones using Sprite Kit, Objective-C, Xcode and Cocoa-2D for designing the board
- <https://github.com/dipankarghosh28/2048>

ColorWin

- Developed using CGRect, Arc4Random, UITapGestureRecognizer, AV AudioPlayer functions
- <https://github.com/dipankarghosh28/ColorWin>

Database Systems (CS 532-02) Binghamton, NY

July 17 – Dec.17

- The group project's target was to use Oracle's PL/SQL and JDBC to implement the Retail Business Management System
- Allows the business to check product inventory and product sales discount information and authorized managers of the business to additionally check sales statistics, order products
- https://github.com/dipankarghosh28/Retail_Business_Management_System
- The implementation is done in two parts using:
 1. PL/SQL Procedure, Function and Triggers
 2. Interface using JAVA and JDBC

Programming Languages (CS 571)

Aug. 16 – Dec. 16

- Postfix evaluation calculator using Flex & Bison tools
- <https://github.com/dipankarghosh28/Flex-Bison-Postfix-Calculator>

Computer Organization & Architecture (CS 520) Binghamton, NY

Aug. 16 – Dec. 16

- Developed a five stage APEX pipeline simulator using Java
- This simulator evaluated the performance and behavior of various CPU pipelining instructions
- Performed out of order execution using multiple Functional Units, Issue Queue, Register Renaming, Reorder Buffer
- Could issue and complete multiple instructions

Programming System & Tools (CS 580U)

Aug. 16 – Dec. 16

- Multiple assignments coded in C
- <https://github.com/dipankarghosh28/Programming-System-Tools>

Software Engineering (070121404CS) Pune, India

Nov. 14

- SRS document developed for "Hospital Management Software System"
- Described the system's high-level requirements including functional requirements, non-functional requirements, business rules and constraints
- <https://github.com/dipankarghosh28/Software-Requirement-Specification>

Data Base Management Systems Project (070121501CS) Pune, India

Jan. 14 – June 14

- Designed a database using SQL and C language for maintaining employees, clients, services being provided, billing, concerns and requests
- <https://github.com/dipankarghosh28/Database-Project-Undergrad>

PUBLICATION

Mulay P., Joshi R.R., Anguria A.K., Gonsalves A., Deepankar D., Ghosh D. (2017) **March 17**
Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications. Advances in Intelligent Systems and Computing, vol 516. Springer, Singapore
Threshold Based Clustering Algorithm Analyzes Diabetic Mellitus
https://doi.org/10.1007/978-981-10-3156-4_3

LEADERSHIP & VOLUNTEER EXPERIENCE

SUNY kids program Binghamton, NY

Sept. 16

- Volunteered at SUNY kids program taking elementary grade school kids for a mini golf, Chuck –'E'– Cheese trip

Child Rights and You (CRY), Pune, India

Feb. 16 – June 16

- Volunteered at CRY educating underprivileged students in public schools

Volunteer, Make a Difference (MAD) Pune, India

April 16

- Participated in 'Back-a-Thon' by Make a Difference (MAD)

Co-Head of Committee, Symbiosis Institute of Technology Pune, India

Feb. 16 – March 16

- Reverb '14: Annual Technical-cultural Festival