

NIKHIL PATIL

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EDUCATION

Binghamton University, State University of New York

Master of Science in Computer Science

Expected: May'18

Overall GPA: 3.8/4

University of Pune, MH, India

Bachelor of Engineering in Information Technology

May'14

Final GPA: 3.6/4

TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java, C++, Java, C#, Shell script
- **Web Technologies:** HTML/CSS, ReactJS, NodeJS, jQuery, Flask, Django, AngularJS
- **Database/Frameworks:** MySQL, Cassandra, MongoDB, Apache Thrift, Google protobuf
- **Software and Tools:** Apache Spark, Android Studio, AWS, GCP, GitLab, VIM, QEMU

WORK EXPERIENCE

The Research Foundation for SUNY, Binghamton, Research Assistant

Binghamton, NY, **May'17-Dec'17**

- Researched machine learning algorithms in Apache Spark while studying algorithms from ML and MLlib libraries provided by Spark
- Improved consistency and processing speed by using Data Frames as dataset with Hadoop as back-end file system and Cassandra as database
- Designed and developed a web application using Python Flask framework to collect required information from user to process 1 terabytes of data

Accenture, Associate Software Engineer

Pune, India, **Aug'14-Jun'15**

- Developed a web and windows Java application to serve insurance processing for client using DB/2 as database and COBOL as back-end service
- Involved in design, implementation, testing and maintenance phase of application lifecycle
- Drafted comprehensive report to document bugs and design flaws and collaborated with product management to design, build and test systems

PROJECT EXPERIENCE

Android Developer

Binghamton, NY, **Jan'18-Present**

- Built an application to control desktop activities from android device using wi-fi or Bluetooth connection
- Working on optimizing delay between client-server interaction and reduce the application access time

Binghamton University, Python Programmer

Binghamton, NY, **Nov'17**

- Implemented an eventually consistent key-value store that borrows designs from Dynamo and Cassandra
- Used Apache Thrift framework for marshalling-unmarshalling messages.

Binghamton University, Python Programmer

Binghamton, NY, **Oct'17**

- Created Python application to emulate banking transactions between branches using Chandy-Lamport's snapshot algorithm
- Used Google protobuf framework for marshalling-unmarshalling messages

Binghamton University, Java Co-Programmer

Binghamton, NY, **Oct'16-Dec'16**

- Built Java application to simulate different stages of instruction pipeline of a processor with some additional features like Read Only Buffer, LOAD/STORE queue and Unified Register File

C# Developer

Pune, India, **June'15-June'16**

- Developed a windows application to monitor plants by logging data to server and display the statistics using reports generated by RDLC reporting
- Improved employee-wage system by 10%

Java Developer

Pune, India, **Oct'13-Feb'14**

- Designed an application to process DICOM images and store it in standard image formats
- Extracted image content to text format and enabled sharing data by integrating Gmail and Dropbox API