

# ASHISH TIWARI

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## WORK EXPERIENCE

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### Flextrade Systems Inc

Software Engineer

Long Island, NY

Aug 2019 - Present

- Created Trading Workflow Automation for Equities in Order Management Systems which reduced the time consumption for Regression Testing in every release by 30%
- Developing the Application for User Specifications using API's and Modern Design Patterns to improve the Interoperability and Maintainability of the System
- Administrating the Backend Systems and Databases for Smooth Development, Improvement and Quality Assurance of the Application

### Binghamton University

Teaching Assistant

Binghamton, NY

Jan 2019 - May 2019

- Developed Auto Grader software which increased efficiency close to 40% in grading by managing end to end process of downloading, compiling, executing, and assigning grades to students based on test cases passed respectively
- Scheduled weekly office hours to elucidate students on concepts of programming and best practices using real-world examples as instances

### Informatics Lab

Research Assistant

Binghamton, NY

Mar 2018 - Dec 2019

- Developed Data-Driven Algorithm using BLAST for comparing Primary Biological Sequence Information such as the Amino-Acid Sequences of proteins to find Intron in Genomes with an accuracy of over 96%

## EDUCATION

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### SUNY at Binghamton

Master's in Computer Science. *GPA: 3.5*

Binghamton, NY

Aug 2017 - May 2019

*Coursework(CS):* Programming Systems and Tools, Operating Systems, Object Oriented Programming

*Coursework(Math):* Statistics, Regression, Statistical Machine Learning, Discrete Mathematics

### Mumbai University

Bachelor's in Electronics Engineering. *GPA: 3.2*

Navi Mumbai, Maharashtra

Aug 2013 - May 2017

## PROJECTS

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### STL Map in C++

Implemented Standard Library Map with the help of Templates and Skip Lists which provided the time complexity for CRUD operations as  $O(\lg(n))$

### Email Classifier

Developed Spam Email Detection Software with the help of Machine Learning Algorithms which delivered an Accuracy of 90.45% on Test Data Set

### Tetris Game

Designed and Developed Single Player Tetris game with the help of SFML Graphics Library for the front end and Modern Design Patterns for the backend

### App-Installs Predictor

Developed a Predictor System that predicts the number of Installs that an Application can have on Play Store based on its Reviews, Ratings, Category and other Input Variables

### Stock Price Predictor

Developing Predictor Model for Predicting the Stock Price of Fortune 500 Companies using Long Short-Term Memory Algorithm

## SKILLS

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**Work Skills:** C(Proficient), C++(Proficient), AutoIt(Proficient), Shell Scripting, GNU - Makefile, CMake, Linux, Vim, Git, Electronic Trading Systems for Equities, Options, Strategies and Forex

**Data Science:** Python (Proficient), SQL (Proficient), R (Intermediate), Matlab (Basic), Machine Learning, Statistic Inference and Modeling, Tensorflow, Scikit-Learn, Numpy, Pandas, RStudio

**Web Development:** HTML, CSS, Javascript, Angular, Node, React