

# NIRAL PATEL

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## 🎓 EDUCATION

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**Stony Brook University**, Stony Brook, NY

Dec 2018

*Bachelor Of Science* in Computer Science: GPA: 3.1

## 👥 EXPERIENCE

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**Stony Brook University** Stony Brook, NY

Jan 2017 – June 2017

*Semester Teaching Assistant* Web Design and Programming

- Demonstrated field work techniques and assisted professors with lessons.
- Evaluated tests and created and evaluated assignments.
- Held office hours to ensure students understood course concepts.

**Satsang Inc.** Westbury, NY

July. 2014 – Jan 2017

*Assistant to Franchisee*

- Managed financial transactions and inventory transactions at the franchisees 7-Eleven Store.
- Looked over Merchandise reports, Financial reports, Credit reports etc and kept everything organized using MS Excel for the franchisee to take action accordingly.

## 👥 PROJECTS

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### Dynamic Memory Allocator (C):

- Built a dynamic memory allocator similar to the one provided by the GNU C.
- Used an explicit free list to provide information on the current state of the memory allocator to the user.
- Improved my debugging (CGDB), unit testing (up to 100 Criterion tests) and software design skills.

### Unix Shell (C):

- Implemented a Unix shell that allows the user to run all commands that are available in Linux.
- The commands can be piped and redirected in multiple ways to allow multiple commands on a single input.
- It utilizes low-level Unix system calls, signal handling, file descriptor manipulation, and processes.
- Processes can be ran in the foreground or background and can be managed in the shell.

### Course Site Generator (Java, JS, JavaFX):

- Created an application to be used by teaching staff to create academic course websites.
- The application had simple GUI which would give useful feedback on each section of the application to make the process of creating a website through it simple.
- Learned to use JSON to transmit data between the application and server as well as integrated XML to allow the application to be ran in different languages.

## 📖 COURSE WORK

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|----------------------------------|---------------------------------------|
| • Data Structures and Algorithms | • Theory of Computation               |
| • Computer Networks              | • System Fundamentals                 |
| • Web Security                   | • Principles of Programming Languages |

## ⚙️ SKILLS

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- Programming Languages: Java, C, Python, JavaScript, MIPS, JavaFX, HTML5, CSS
- Technologies: Git, Windows, Linux