

# Omar Syed

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## EDUCATION

**Stony Brook University, Stony Brook, NY**  
**B.S. Computer Science, Applied Mathematics & Statistics**

**August 2015 – May 2019**  
**GPA: 3.47/4.0**

## PROJECTS

### INForum (Python/MySQL)

- Utilized Django's user authentication API and email utilities to support account registration, verification via email and authentication
- Each mode of user interaction (e.g. ask questions, leave comments, upvote/downvote, etc.) is implemented as a functional view, which interacts with the MySQL database via Django's model system and return the appropriate data that is then displayed on the frontend using Django's templating language
- Created a scalable and user-friendly Q/A forum, which is hosted on AWS EC2 t2.micro instance, that can accommodate over 1000 users

### Overdrive Comics (Java/MongoDB)

- Comic book creation site, which allows users to draw and publish their own comics and curate comics created by other users based on genre, hosted on AWS EC2 t2.micro instance
- Implemented Angularjs to aesthetically enhance the UI in conjunction with LiterallyCanvas library to provide users with drawing tools
- Constructed Spring Boot controllers to handle user requests and interact with models to enact changes made to MongoDB database, which stores user and comic data
- Provides an outlet for comic book artists to expose their work to an online audience

### Invoice Automation (Python)

- Script that automates process of creating invoice for 20 individual customers on Squareup.com
- Makes use of pandas library to convert excel data into dataframe, making customer data easily extractable
- Employs Selenium Webdriver to take parsed data associated with each individual customer and create and send invoice out to that customer using Squareup.com utility
- Reduced time to send invoices out to customers by over two hours

## EXPERIENCE

**Stony Brook University**  
**Teaching Assistant**

**Stony Brook, NY**  
**January 2018 – January 2019**

- Utilized Python socket library for server-client interactions in programming assignments
- Used Python urllib library to handle HTTP requests to server in programming assignments
- Met with students one-on-one to enforce understanding of TCP/IP protocol suite

## TECHNICAL SKILLS

- **Languages:** Python, Java, C, PHP, SQL, JavaScript, HTML/CSS
- **Operating Systems:** Windows, Linux
- **Backend Frameworks:** Django, Flask, Spring Boot
- **Frontend Frameworks:** Bootstrap, Angularjs
- **Web Servers:** Apache, Nginx
- **DBMS:** MySQL, MongoDB, Cassandra
- **Cloud Services:** Amazon Web Services EC2, UpCloud, OpenStack
- **Courses:** Cloud Computing, Web Security, Computer Security Fundamentals, Intro to Data Science
- **Miscellaneous:** Android Studio