

# MANKIRAT GULATI

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## EDUCATION

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Aug 2016 – Dec 2019 **Stony Brook University**

Relevant Coursework: **B.S. in Computer Science**

+ Data Structures

+ Analysis of Algorithms

+ Software Programming

+ Computer Security

+ Cloud Computing

**Major GPA: 3.7 / 4.0**

**Honors:** Magna Cum Laude, Deans List (All Semesters), Presidential Scholarship Recipient

## EXPERIENCE

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May 2019 – Aug 2019 **Technology Summer Analyst** *Nomura Securities* | New York, NY

- **Fullstack development** for Nomura's corporate services using **Spring, Angular, and SQL**.
- Reduced application testing time by **80%** by implementing **automated functional tests**.
- Assisted in moving existing applications to **Docker** for easy scalability and deployment.

Jan 2019 – May 2019 **Research Assistant** *Stony Brook University* | Stony Brook, NY

Advisor:

Prof. Nick Nikiforakis

- Focused security research on **domain drop-catching** and **residual trust transferal**.
- Designed API to query **Elasticsearch** for information on over **10 million** domains.
- Built **Chrome extension** to warn users of domain ownership changes on website visits.

May 2018 – Aug 2018 **Software Developer Intern** *IBM* | New York, NY

- Improved user experience with Watson documentation by providing useful feedback.
- Developed slack bots to improve communication for Watson teams.
- Implemented **Python** utility for executing batch machine learning tasks in Watson Studio.

## PROJECTS

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Dec 2019 **Gerry**

Spring Boot, React, phpMyAdmin, Hibernate, Python, Amazon EC2

- A **gerrymandering analysis tool** to generate fair and non-partisan districts.
- Collected and preprocessed census data to GeoJSON format usable by backend.
- Generated and stored symmetrical precinct neighbors for algorithm accuracy and speed.

May 2019 **Stack Overflow Clone**

Node.js, Elasticsearch, MongoDB, RabbitMQ, Ansible, Cassandra, Angular, Redis, Memcached, Nginx

- A team effort to build a clone of Stack Overflow with **microservice architecture**.
- Implemented initial backend logic for **REST** services.
- Created **Ansible** playbooks to automatically deploy and configure microservices.

## SKILLS

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### Programming

Java, JavaScript, Python, C, TypeScript, Bash, SQL

### Web

Node.js, Flask, Vue.js, Angular, Selenium, HTML, CSS, MVC, REST

### Tools / Technologies

Git, Kibana, Maven, Ansible, UNIX, phpMyAdmin, Cucumber, IntelliJ

### Databases

MySQL, SQL Server, MongoDB, Elasticsearch