

# Uday Manchanda

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<https://github.com/umanchanda>

## EDUCATION

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- **New Jersey Institute of Technology (NJIT)** Newark, NJ  
*Bachelor of Science in Computer Science; GPA: 3.46/4.00* May 2016 – May 2019 (In progress)
- **Case Western Reserve University** Cleveland, Ohio  
*Major: Computer Engineering* Aug 2014 – May 2016 (Transferred)

## EXPERIENCE

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- **CircleBlack Inc.** Newark, NJ  
*Project Manager Intern: Market Data Feed Automation* Feb 2019 - May 2019
  - **Responsibilities:** Led team of fellow undergraduate students. Project consisted of Python scripts to parse and collect data from Xignite API. Inserted data into MySQL database hosted on AWS based on specific rules.
- **Chicago Mercantile Exchange (CME Group)** New York, NY  
*CyberDefense Engineering Operations Intern* Summers 2017 and 2018
  - **Responsibilities:** Assisted in maintaining standard operations procedures and documentation. Responded to inquiries on technologies and products such as Riverbed, Guardium, and ArcSight.
- **Interpublic Group (IPG)** New York, NY  
*Network Security Intern* May 2016 - December 2016
  - **Responsibilities:** Implemented Splunk based network intrusion detection system to collect and analyze data from fifty hosts. Assisted in configuring security to enable: data source aggregation, event correlation, and ongoing monitoring. Analyzed alerts reported in Splunk and fine-tuning alert parameters.
  - **Additional:** Conducted Nessus vulnerability scans on email servers to check for vulnerabilities

## PROJECTS

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- **Language Interpreter** Fall 2017  
<https://github.com/umanchanda/language-interpreter> Language: C++
  - **Specification:** Performs lexical, syntactic, and semantic analysis while referencing a symbol table from an EBNF grammar and set of semantic rules
- **Web Server** Spring 2018  
<https://github.com/umanchanda/webserver> Language: C
  - **Specification:** Creates a webserver from scratch in C
- **Book Review Web Application** Winter 2019  
<https://umanchandabooks.herokuapp.com> Technologies: Flask, PostgreSQL, Jinja2
  - **Specification:** Allows user to create and submit a review for a particular novel. User registration and authentication included.
  - **Web Scraping:** API Information scraped from Goodreads using Python requests library
- **Web Authentication Application** Spring 2019  
<https://github.com/umanchanda/authentication> Technologies: React.js, Redux.js, Node.js, Express.js, MongoDB
  - **Specification:** Minimal Javascript Full Stack Web Application with user authentication via passport and JWTs

## PROGRAMMING SKILLS

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- **Languages:** Python, Java, C, SQL, Javascript, C++, LaTeX, R, HTML, CSS
- **Web Development Technologies:** Flask, Django, React.js, Redux.js, Node.js, Express.js, Gatsby.js, Bootstrap
- **Databases:** SQLite3, MySQL, PostgreSQL, MongoDB, Microsoft SQL Server, GraphQL, Oracle SQL Server
- **Cloud Computing:** Heroku, AWS
- **Coursework:** Advanced Data Structures and Algorithms, Programming Language Concepts, Fundamentals of Network Security, Advanced Programming in Linux, Statistical Methods in Data Science

## AWARDS

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- **Eagle Scout Award:** Earned in April 2014 after successfully completing Eagle Project