

# 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 a 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  
*Cyber Security Intern* Summers 2017 and 2018
  - **Responsibilities:** Assisted in maintaining standard operations procedures and documentation. Provided operational support and responded to inquiries on 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. 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:** Implemented a simple HTTP server from scratch and responds to page requests from a web browser. Serves HTML pages stored locally.
- **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. API information scraped from Goodreads using 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, jQuery
- **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