

Uday Manchanda

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<https://github.com/umanchanda>

EDUCATION

- **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

- **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
CyberDefense Engineering Operations 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

- **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 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

- **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

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