Uday Manchanda

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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: Market Data Feed Automation — *Feb 2019 - May 2019*
- **Data Collection**: Wrote Python scripts to parse and collect data from Xignite API
- **Data Aggregation**: Inserted data into MySQL database hosted on AWS.

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

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

- **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, 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