Uday Manchanda

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EDUCATION

New Jersey Institute of Technology (NJIT) — Newark, NJ
Bachelor of Science in Computer Science; GPA: 3.43/4.00 — *Graduated: May 2019*

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 MongoDB database hosted on AWS.

Chicago Mercantile Exchange (CME Group) — New York, NY
Cyber Security Intern — *Summers 2017 and 2018*

- **Responsibilities**: Helped maintain standard operations procedures and documentation. Provided operational support and responded to inquiries on products such as Riverbed, Guardium, and ArcSight. Became acquainted with matters on Network Security such as Proxy Management and Host and Network Intrusion Detection.

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. 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 server from scratch and responds to page requests from a web browser. Serves HTML pages stored locally.

Pagerank — Spring 2019
https://github.com/umanchanda/pagerank — *Language: Java*

- **Specification**: Implemented the Google Pagerank Algorithm represented as a graph via an adjacency list representation. Iteratively updates each value in the graph with its previous value.

Finance Application — Winter 2019
https://github.com/umanchanda/umanchandastocks — *Technologies: Flask, SQLite3, Jinja2*

- **Specification**: Allows user to: buy and sell stocks, view stock price information, and current portfolio.

PROGRAMMING SKILLS

- **Languages**: Python, Java, C, C++, LaTeX, SQL, Javascript, R
- **Web Development Technologies**: Flask, Django, React.js, Node.js, jQuery
- **Databases**: SQLite3, MySQL, PostgreSQL, MongoDB, 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