Ethan **Lee**

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Education

Northwestern University – McCormick School of Engineering   *Evanston, IL*

B.S./M.S. in Computer Science – GPA: 3.78   *Sep. 2016 - Exp. Jun. 2020*

Upper Level Coursework: Data Structures and Algorithms, Game Design and Development, Artificial Intelligence, Machine Learning, Computer Graphics, Human-Computer Ineraction, Databases*, Advanced Algorithms*, Machine Perception of Music*, Operating Systems*

*Classes to be completed by Summer 2019

Experience

Tesla Motors   *Reno, NV*

Software Engineering Intern   *Oct. 2018 - Dec. 2018*

- Implemented user authentication into Web API allowing partner organizations to upload utility usage data directly to our platform
- Added ability to compare utility data across past datasets allowing users to visualize changes over time in .NET
- Automated MATLAB connection to MySQL databases allowing non-technical users to save hours viewing data models
- Developed room finder that draws a path from a specified location to room based on log file of an AutoCAD model of the floorplan
- Added tracking of events for software that streamlines the delivery center process to be used for future analytics

Chicago Mercantile Exchange Group   *Chicago, IL*

Software Engineering Intern   *Jun. 2018 - Aug. 2018*

- Designed and implemented an exception handler for process automation robots to alert robot owners and track exception trends
- Launched incorporation of a "robotic work force" using Robot Process Automation tools like Blue Prism to automate mechanical workflows
- Built a bot that automates a daily data retrieval and distribution process saving 40 hours/year

ISO Athletic   *Chicago, IL*

Software Engineer   *May 2018 - Present*

- Building application to track basketball statistics in a more efficient manner and report analytics on optimal lineups and player development
- Implementing frontend web application to track statistics in Vue.js and managing state with Vuex
- Constructing REST API in Node.js, and storing data in a PostgreSQL database

ProMazo   *Chicago, IL*

Technology Consultant   *Nov. 2017 - Feb. 2018*

- Spearheaded initiative to transition data source environment of a Fortune 500 Company, shedding light on full data interaction for the first time
- Analyzed the data interactions of dozens of business units detailing data sources, data manipulation, and the end users of generated reports
- Prioritized data sources based on metrics such as revenue generated from reports, ease-of-transition, and number of affected teams

Oracle   *Chicago, IL*

Software Engineering Intern   *Jun. 2017 - Sep. 2017*

- Developed Push Notification and Real Time Messaging Packages for Textura product using Websockets in Python
- Created REST API using Flask to send/receive notification information storing data in a PostgreSQL database
- Designed a user interface for Customer Service to interact with and aid product users via real time messaging

Projects

Airline Price Predictor   *Python*

Predicts flight ticket prices based on airport information   *2018*

- Scraped airline ticket prices, then ran a linear regression model achieving a 65% RSE using scikit-learn and pandas

Veggie Warehouse   *C# - Unity*

Warehouse Management Simulation Game   *2018*

- Player assumes the role of a warehouse manager and has to balance fulfilling orders, inventory, and purchasing capital

Squatters   *Python*

Script that automatically reserves a library room at NU   *2017*

- Used BeautifulSoup and Selenium to scrape and automate library reservation process for study rooms at Northwestern University

Skills

Languages (Proficient | Comfortable | Experimenting): Python, C#, JavaScript | C++, SQL | Golang, Java
Technologies: Git, React, React-Native, Node, Vue, PostgreSQL, Flask, SQLAlchemy, MySQL, .NET, Express, Matplotlib, scikit-learn, Pandas, .NET