Christopher Shen

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EDUCATION

Georgia Institute of Technology | Atlanta, GA   Expected Dec. 2019
BS in Computer Engineering, 3nd Year Candidate, GPA 3.37/4.00
Minor in Computing (Intelligence)

EXPERIENCE

Undergraduate Research | Georgia Tech Lorraine   Aug. - Dec. 2018
Department of Electrical and Computer Engineering

- Installed array of monocrystalline, polycrystalline, amorphous, and CIGS solar panels, and wired the array to apparatus of charge controllers, Labjack, and SMU.
- Designed a Labview program for data aquisition of the current, voltage, and power of the solar panel array. Stored the data in an SQL database and exposed it in an RESTful API.
- Created a data visualization tool using 2D Javascript graphics libraries.

Consolidated Edison, Inc. | New York City   June - Aug. 2017
Engineering Aide

- Drafted process flow diagrams for water treatment (reverse osmosis, demineralization, ion-exchange), waste neutralization, and boiler systems within stream production plant using system descriptions and P&IDs.
- Wrote a script that pulled data from IBM Maximo server to create a database of all transmitters work order histories stationed in the plant and identified important trends contained in the data.
- Used Datasplice software to move Preventative Maintenance records onto IBM Maximo server.

SKILLS

Languages	Python, Java, C/C++, MATLAB, JavaScript, SQL, MIPS
Misc. Technologies	Node, Express, Flask, Vue, Git
Hardware	VHDL, Labview, Quartus II, Mbed, KiCad
Coursework	Computer Architecture, Machine Learning, Digital Design, Circuit Analysis, Data Structures & Algorithms, Digital Signal Processing, Robotics, Discrete Math

PROJECTS   More projects at https://github.com/csshen

Littleroot
- An MMORPG Pokemon themed game using Node.js, websockets, and the Phaser 3 game engine.
- Supports multiple simultaneous connections and player data storage.

Atlas Obscura Unofficial API
- A RESTful API using Python, Flask, and Flask-RESTful that serves travel destination information.
- Used BeautifulSoup to scrape data directly from the Atlas Obscura website/blog.

Trivia Bot
- A Python script using Google's Tesseract OCR library to parse text from live trivia games i.e. HQ.
- Uses that text to scrape Google and Wikipedia in order to return the most probable answer.

ACHIEVEMENT

IEEE-HKN	Electrical & Computer Engineering Honor Society	Apr. 2018 - present
Dean's List	High Academic Standing	Aug. 2016 - present
Rensselaer Medal	Merit Scholarship	June 2015