

## Education

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**Drexel University**

Philadelphia, PA

**Bachelor of Science in Chemical Engineering**

- Cumulative GPA - 3.75
- Awarded the A.J. Drexel Scholarship for the academic years 2018 - 2021
- Received the Dean's List Award for my 9 academic terms from 2018 - 2021

## Programming & Technical Skills

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**Languages** – CSS, HTML, Java, JavaScript, MATLAB, Python**Software** - Aspen Plus, Simulink, Microsoft Office**IDEs** – Eclipse, Jupyter Notebook, Visual Studio Code**Version Control** – Git

## Work Experience

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**Drexel University**

Philadelphia, PA

**Script Developer (Python)**

January 2020 - May 2021

- Developed a stock-driven solar photovoltaics dynamic material flow assessment in Python
- Created unit tests via pytest in order to assure the model's assumptions are held as more parameters were added
- Wrote a supporting information document to help users understand and re-use the model for their own study

**Philadelphia Water Department**

Philadelphia, PA

**Laboratory Assistant Co-op**

October 2018 - March 2019

- Communicated and collaborated effectively with lab technicians to complete timely tasks with limited equipment.
- Took ownership of chain of custody sheets for industrial waste test samples entering the plant.

## Projects

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**BDO Tracker****Web Developer (Django, HTML, CSS JavaScript, MySQL)**

August 2021 – September 2021

- Built a website to help users optimize their daily income by tracking the most profitable items for various activities
- Utilize Fetch API to GET updated values from a local database and to dynamically update the table values
- Hosted at: <http://da593.pythonanywhere.com/marketplaceapp/home>

**Binary Distillation Solver****Web Developer (HTML, CSS JavaScript, React)**

October 2021 – October 2021

- Built an interactive website that solves for the number of stages required for a binary distillation column
- Implemented input validation, tooltips, and alerts to guide users alongside a dynamic graph to demonstrate the McCabe-Thiele method
- Hosted at: <https://da593.github.io/ReactBinary/>

**Interactive Calculator**

Drexel University

**Software Engineer (Java)**

February 2021 – February 2021

- Developed a calculator with a GUI using Java AWT package
- Utilized a server to calculate the mathematical expression inputted and is sent to the calculator client to be displayed

**FlappyBlock Project**

Drexel University

**Project Manager and Lead Developer (MATLAB)**

January 2018 - March 2018

- A MATLAB side-scrolling game with keyboard input, scoreboard, and collision detection inspired by FlappyBird
- Organized and lead team meetings discussing project milestones and deadlines