

## Joan Shaho

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### EDUCATION

#### University of Pennsylvania, School of Engineering & Applied Science, Philadelphia, PA

*Expected May 2021*

- Bachelor of Science in Engineering; Computer Science Major

GPA: 3.8 out of 4.00

### TECHNICAL SKILLS

- Programming Languages: Java (advanced), Python (intermediate), Javascript, HTML, and CSS (intermediate), C (beginner)
- Technologies: Hadoop MapReduce, AJAX, Node.js/Express.js, Bootstrap, jQuery, Github Enterprise, AWS, Git BASH, Spring MVC, ElasticSearch, PyQt, MySQL, React.js

### RELEVANT EXPERIENCE

#### Inspirave – SaveAway

*May 2020 – August 2020*

##### Full Stack Developer Intern

- Enhanced search accuracy by 50% by spearheading the development of the User Feedback System initiative
- Increased user satisfaction by 23% by integrating Ebay Shopping API and automating API calls to Ebay, Best Buy, and Etsy
- Improved search relevancy by 31% by integrating key-value pair lookup table
- Collaborated with team of 6 developers to implement Referral Program, one of the product's main features
- Assisted new members of development team by creating ElasticSearch tutorial to understand its use in the codebase
- Improved product quality by developing algorithm for shortening Etsy product names down to 70 – 90 characters

#### GRASP Laboratory, University of Pennsylvania, Philadelphia, PA

*May 2020 – August 2020*

##### Summer Research Assistant

- Assisted research team in debugging process by creating Graphical User Interface of robot simulation program
- Gave user ability to specify parameters for drawing one of 3 possible shapes
- Allowed better handling of objects by producing clean commented code and wrapper classes
- Made user inputs easily readable by designing JSON file for user-specific inputs and parameters
- Created file and video documentation explaining the GUI to help users better understand it

#### Department of Astronomy, University of Pennsylvania, Philadelphia, PA

*June 2019 – August 2019*

##### Summer Research Assistant

- Automated process by which pre-built Convolutional Neural Network (CNN) predicted Radio Frequency Interference (RFI) on given set of more than 80,000 astronomical visibility data collected by radio antennas
- Facilitated weekly meetings with team of 4 people to communicate progress
- Programmed fully functional automation pipeline of image processing, analysis, and CNN prediction storage

### INDEPENDENT PROJECTS

#### Scalable Cloud Computing course final social website project

*December 2019*

- Participated in a 3-member group with goal of creating a scalable social media application on Node.js
- Utilized AWS for storage, front-end for display, and MapReduce backend for friend recommendation
- Created DynamoDB table setup portion of project
- Designed and coded website's front-end and back-end communication using jQuery, Node.js, and AJAX with strong attention to detail

#### Genetic Algorithm Independent project

*June 2019*

- Constructed car racing simulation where each car's moves are controlled by Neural Network with goal of reaching the finish line through series of evolving generations:
- Implemented genetic algorithm
- Enhanced object-oriented programming, debugging abilities, and unit testing
- Successfully trained cars to finish the track

### ADDITIONAL EXPERIENCE

- **Access Engineering, Philadelphia, PA** – Lecturer
- **ADAPT, Philadelphia** – Software Design Chair, Part of 7-member exoskeleton team
- **IEEE-HKN Lambda Chapter** – Member

*October 2018 – Present*

*October 2018 – May 2020*

*February 2018 – Present*