Jeremy Hu

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Education

University of Maryland **B.Sc : Computer Science, B.Sc Economics**   2015-2019

- Software Design | Algorithms

Skills

Languages: **Fluency:** Javascript | Java | HTML5/CSS **Proficiency:** Python | C | PHP

Technologies: Git | Angular | DeepLearning4Java | Node.js | Spring | Maven | Matlab

Professional Experience

Software Development Intern   **BeamIO**   Summer 2017

- Developed several new front-end data visualization tools using **Leaflet.js** and related plugins
- Created a vector visualization tool and a drone video overlay in the GIS map platform
- Used **Deep-Learning4Java** to configure and train a ResNet50 convolutional neural net on satellite imagery. Recognition accuracy of 88% for 22 classes of images on user-facing map platform.
- Worked in an **Agile Environment** with software developers and scientists.
- Active on JIRA boards and weekly scrums to collaborate with developers on stories

Research Assistant   **Maryland Cybersecurity Center**   January-May 2017

- Responsible for writing **Python** web-scrapers for analysis of demographics data
- Collaborated with graduate students and professor in writing the final paper

High School Student Intern   **Weizmann Institute, Rehovot, Israel**   Summer 2015

- Development of **machine learning** program in Matlab trained on images of numbers.

High School Intern   **National Institute of Standards and Technology**   Summer 2014

- Worked in Physical Measurements Lab with a research chemist on a **color science** project.
- Delivered a poster presentation on finding a transformation matrix to map two sets of photos onto each other.

Projects

Yelp5   **Capital One Coding Summit Challenge 2017**

- Restaurant suggestion app created using Yelp Fusion API with **Express.js** and Heroku

Spring Human Resources App   **Personal Project 2016**

- A **full-stack** human resources CRUD web application using Java, Spring (Boot, Core, MVC, Data/JPA), Javascript, JQuery, and Maven. Configured with the help of a senior developer.
- Also refactored as JSON **REST API**, based on the same technology stack.

Volunteering and Activites

UMD Tzu Ching   **Student Volunteer**   Fall 2015 - Current

- Volunteer at DC parks and shelters to provide food and clothing to homeless citizens.

UMD Club Basketball   **Member**   Current