**Lizhang Xie**

[lx2177@columbia.edu](mailto:lx2177@columbia.edu) ⦁ (917)-913-0716

<https://www.linkedin.com/in/lizhangxie> ⦁ <https://github.com/LizhangX>

**Technical Proficiencies**

**Front-End Development:** HTML5 ⦁ CSS3 ⦁ jQuery ⦁ jQuery UI ⦁ HTTP Request/Response ⦁ Ajax

**Languages**: Python ⦁ JavaScript ⦁ Typescript ⦁ Ruby

**Databases:**  SQL (MySQL, SQLite, PostgreSQL) ⦁ NoSQL(MongoDB) ⦁ Mongoose.js

**Frameworks:**  Flask ⦁ Django ⦁ Angular4 ⦁ Ruby on Rails ⦁ Express/Socket.io ⦁ Bootstrap

**Methodology:** Object Oriented Programming(OOP) ⦁ MVC/MTV ⦁ RESTful Architecture ⦁ CRUD

**Others:** Git ⦁ Node.js ⦁ SimaPro ⦁ ArcGIS ⦁ R ⦁ Microsoft Office Suite

**Educational Background**

Fulltime Software Engineering Trainee (3 full stack web technologies), 3 Black Belts – 2017

**--Coding Dojo,** Dallas, TX

**M.S**. in Earth and Environmental Engineering (Sustainable Energy), GPA: 3.3/4.0 – 2016

*[Master Thesis: Comparative Life Cycle Assessment of Concentrating Solar Power with Thermal Energy Storage]*

**--Columbia University in the City of New York**

**B.S.** in Environmental Engineering, GPA: 3.5/4.0 – 2014

**--Lübeck University of Applied Sciences**, Lübeck, Germany

**B.S.** in Chemical Engineering, GPA: 3.5/4.0 - 2013

**--East China University of Science and Technology (ECUST)**, Shanghai, China

**Projects –Coding Dojo:**

**NotiFlight (Ruby on Rails)**

* A web app that will track and show your flights' price trend, and will send you email notification when price changed.
* Technologies: Ruby on Rails, OAuth2.0(google), SQLite, Data Scraping (Capybara, PhantomJS, poltergeist), Crontab, Action Mailer, Chartkick, jQuery, Ajax, bootstrap, HTML5.

**Experience Highlights**

**Coding Dojo, TX, US**

**--Teacher Assistant**,September 2017

* Support Instructors though assisting in teaching through small lectures, live demos.
* Conduct code reviews with online and/or on-site students.
* Enforce the 20-minute rule.

**Elegant Electric, TX, US**

**--Solar Engineer**,September 2016

* Responsible for engineering and design of solar energy products.
* Product modeling, testing and optimizing.

**Hanergy Thin Film Solar Power Investment Development Guangdong Co. Ltd., Guangzhou, China**

**--Research Intern**,August 2015

* increased sales of solar systems by a significant 10%. Proficiently determined the market of distributed solar generation by implementing market research on villa districts throughout the Guangdong Province.
* Skillfully investigated integration issues and capably established conclusions as to why photovoltaic grid integrations difficult to perform.

**Future China Initiative (FCI) Student Organization from Teachers College – Columbia University, New York, NY**

**--Board Member – General Secretary**,May 2015

* Increased awareness of organization by aptly promoting events in newsletter and targeted social media platforms.
* Efficiently acquired 40 new members for organization by proficiently directing team through interviewing and recruiting processes.

**Shanghai Environmental Monitoring Centre, Shanghai, China**

**--Sampling Assistant Intern**,January 2013

* Reduced data processing time by 80% by successfully devising remarkable Excel script to effectively process noise data.
* Analyzed quality of water, dust and noise by adeptly gathering samples from industry and commercial buildings.

**Scholarships**

DAAD (German Academic Exchange Service) Sur Place Scholarship – 2013

Third Class Comprehensive Scholarship – 2011 | 2012

**Certificates**

Engineer-in-Training (EIT)

**Languages**

Mandarin & Cantonese (Native) ⦁ German (Basic)