

Zheng Qian

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EDUCATION

Washington University in St. Louis

St. Louis, MO

Master of Architectural Sciences and Technology (**STEM**), focus on **Computational Design** Sept. 2013 - May 2015

Coursework: Data Structures and Algorithms, Machine Learning, Intermediate Statistics and Data Analysis

App Academy

New York, NY

Intensive computer programming school with a < 3% acceptance rate.

Feb. 2017 - June 2017

Focus: OOP, Data Structure, Algorithms, Test-driven Development, SDLC, Web Development and Database

Southeast University

Nanjing, China

Bachelor of Science in Architectural Engineering

Sept. 2008 - June 2013

SKILLS

Programming: Python, Java, Ruby, Linux, Apache, Git, AWS, Database(PostgreSQL, MySQL, Oracle), Pentaho, Alteryx

Front-end: Rails, React.js (react-router, react-redux), AngularJS, Bootstrap, .NET, JavaScript (ES5, ES6, EaselJS), PHP, Flux, AJAX/JSON, Webpack, Responsive Design, Word Press, HTML5 (Canvas, SVG), CSS3 (Less, SASS, PostCSS), jQuery, Node.js, Babel, RESTful API

PROFESSIONAL EXPERIENCE

Freelancer

New York, NY

Web Developer

June 2017 - Present

- Developed complex MVC Controllers, ViewModels and Helper methods linked to backend database, which involved Send Single or Multiple Payments, Setup and Manage eBills and Reminders for POS system using Java, JavaScript, SQL, AJAX.

Rafael Viñoly Architects

New York, NY

Computational Designer

July 2015 - Feb. 2017

- Redesigned the company's website employing responsive design using Bootstrap, JavaScript, JQuery, CSS, Media Queries, which increased average project Click-Through Rate by 67%.
- Authored and updated Python script to automate Revit tasks and increased team's work efficiency by 20%.
- Created and conducted highly persuasive presentation documents to clients using Adobe Creative Suites.

Hua Xia Bank

Nanjing, China

User Interface Developer

June 2014 - Aug. 2014

- Developed online messaging and online notification system of Employee Centric Self Service Portal (Office Automation System) with cross-browser and cross-device development, testing, optimization to improve user experience and efficiency using Java, JavaScript, AJAX, jQuery, HTML5 and Oracle Database.

Ericsson Communications Co. Ltd

Nanjing, China

Database Analyst Intern

June 2013 - July 2013

- Developed and maintained ETL (Data Extraction, Transformation and Loading) mappings using Alteryx to extract data from multiple source systems that comprise databases like Oracle, SQL Server, flat files to the Staging area, EDW and then to the Data Marts.

PROJECTS

CloudBnC - Rails, React.js, Node.js, Flux, PostgreSQL, JavaScript, jQuery, HTML5, CSS, Responsive Design

Full-stack single page application for hospitality and travel accommodations.

- Ensured secure front-end and back-end user authentication using JavaScript and BCrypt gem(Ruby).
- Reduced repetitively fetching data from server by caching non-critical ones on the front-end.
- Created responsive airbnb-style google map for property listing using Ajax, PostgreSQL, Google Places API and React-dates and CSS, enabling users to input multiple filters like geoposition, date range, party size and price.
- Prepared unit test cases and performed unit testing using Jasmine.
- Optimized page load performance by automatically adjusting uploaded images resolution stored on Cloudinary (AWS) via Paperclip gem(Ruby), which improved page load speed by 71%.

StockAnalyzer - Python, RESTful API, TextBlog, Keras

Stock prediction application.

- Conducted sentiment analysis on tweets retrieved by Twitter API about selected stock quote using TextBlog to infer the volatility chances of the stock.
- Forecast one day ahead stock price by training a neural net with multilayer perceptron model using Python Keras and evaluated accuracy using minimum mean square error and cross validation.