

Shannon (Shengnan) Cao

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SUMMARY

Innovative software engineer interested in full stack web application development, and data engineer positions.

COMPUTER SKILLS

- **Languages:** Extensive experience in Javascript, Python, HTML5, CSS3; experience in R, Java, Solidity, Scala
- **Knowledge:** Full stack web development, mobile development(iOS, Android), machine learning (NLP), data mining, databases
- **Tools:** Node.js, ExpressJS, React, MongoDB, NLTK, scikit-learn, Tensorflow, React-Native, React-Redux, [socket.io](#), AWS Elastic Beanstalk, Heroku, DigitalOcean

PROFESSIONAL EXPERIENCE

Public Peer Review Platform

Cambridge, MA

Full stack web developer

Oct. 2018 – Feb. 2019

- Web development
 - Designed and coded a two-side user web platform (www.researchrev.org) and social networking web app (<https://morning-waters-23416.herokuapp.com>) from sketch using Node.js, ExpressJS, React, MongoDB
 - Implemented RESTful APIs, structured navigation and architecture, built core features including authentic system, file uploader, community, like- and view-counter
 - Collaborated with UX/UI designer to design frameworks and implemented front-end with React and Redux, deployed the web app on DigitalOcean and Heroku
 - The project was selected into MIT internal incubator, Sandbox and received a special fund from MIT Grad Student Council and MIT Library.
- Data mining
 - Wrote web crawlers to mine and stream massive data from open source forums using Python scripts
 - Visualized data with ggplot in order to analyze relationship patterns

L.L.Bean

Boston, MA

Machine Learning Internship

March 2018 – June 2018

- Performed cleaning and stemming over 8000 text data with nltk library, extracted features using CountVectorizer
- Implemented Naive Bayes, Logistic Regression, MLP and SVC using TF-IDF plus ngram to predict review's context giving 85% accuracy rate
- Predicted sentiment using deep learning algorithms including RNN and LSTM model with the help of Tensorflow

Divinity Studio Corp

Boston, MA

co-founder/ web developer

Summer 2018

- Designed and coded AI Chatbot Web app (<https://ai-chatbot-application.herokuapp.com>) with Node.js, socket.io, deployed the app on heroku

PUBLICATIONS

- Z. Li, **Shengnan Cao**, et al, Understanding inbound and outbound knowledge flow in open source hardware companies using community network analysis, IDETC/ICE, ASME 2019

EDUCATION

Northeastern University

Boston, MA

M.S. in Informatics

July 2018

GPA: 3.87 / 4.0

Courses: Algorithms, Database Management Systems, Programming Foundations for Digital Media in Java, Computer systems and Networks, Web Creation Boot Camp, MIT 6.148 Web Lab

China Women's University

Beijing, China

B.S. in Finance

June 2015