Chang Ren

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EDUCATION

AUBURN UNIVERSITY
PhD in Computer Science
Aug 2018 - Present | Auburn, AL
GPA: 4.0 / 4.0

AUBURN UNIVERSITY
MS in Computer Science
Aug 2016 - July 2018 | Auburn, AL
GPA: 4.0 / 4.0

NORTH CHINA UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER
BE in Computer Science and Technology
Grad. June 2014| Zhengzhou, China

LINKS

Facebook:// **Cecilia**
Github:// **ChangRen**
LinkedIn:// **ChangRen**

COURSEWORK

GRADUATE
Computational Biology
Deep Learning
Data Mining
Advanced Topics In Algorithms
Advanced Computer Architecture
Advanced Topics In Operating Sys
User interface design
Web Application Development

TEACHING ASSISTANT
Advanced Topics In Algorithms
User interface design
Computational intelligence

SKILLS

PROGRAMMING
Proficient:
Python • JavaScript• HTML
CSS • Shell
Competent:
C • LaTeX• MySQL• Assembly
Familiar:
C# • iOS

EXPERIENCE

DIGITAL CHINA INFORMATION SYSTEM CO., LTD.
Business Intelligence Engineer
June 2019 - July 2019 | Beijing, China
Participated in the development of some modules of the Golden Tax Phase III Project Decision Support Platform.

TENBOON NETWORK TECHNOLOGY CO., LTD.
Software Engineer
Feb 2014 - June 2016 | Zhengzhou, China
Joined the start-up company established by my class leader in my senior year and engaged in design and development of website and software.

RESEARCH

DRUG DISCOVERY AND DEVELOPMENT LAB | Researcher
Jan 2020 – Present | Auburn, AL
Innovating an automated bioinformatics workflow with **Dr.Calderon** and a collaborative team to quicken the process of discovering new effective drugs from natural products.

HUMAN COMPUTER INTERACTION LAB | Researcher
Aug 2018 – Present | Auburn, AL
Working with **Dr. Seals** to develop and improve **APTgt**, a web-based learning system designed to promote an approach to automated grading phonetics transcription coursework.

INDIVIDUAL PROJECTS

PROTEIN ATTRIBUTE PREDICTION
Implemented GNB, decision tree, Liner Regression, Logistic Regression to predict/compare the attributes of proteins. (Python)

PRISM EDUCATIONAL CONSULTING: SPECTRUM TOOL
Created a platform for educational teacher training through Animated Case Studies. (HTML/CSS/JavaScript)

WEATHER FORECAST IOS APP | Code-A-Thon
Participated in designing and implementing a 7-day weather forecast App based on Dark Sky API within 36 hours. (Swift)

NLP FOR SENTIMENT ANALYSIS WITH LSTMS
Presented the sentiment analysis by using NLP, statistics, and machine learning methods. Built the LSTM model with tensorflow and trained the model with the Imdb movie review dataset.(Python)

PUBLICATIONS

[1] C. D. Seals, A. I. Calderón, **Chang Ren**, S. Baskiyar, U. Athikala, and K. Heck. Integration of biological activity to global natural product social molecular networking: A preliminary study to support user-friendly drug discovery. 2021 ASEE Southeastern Section Conference, Mar. 2021.