Jon (Zheng) Lian

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EDUCATION

Stanford University **Stanford, CA**
B.S. in Computer Science (CS GPA: 3.86/4.00) Expected *06/2021*

Selected Coursework:
Systems: Principles of Computer Systems
AI: Artificial Intelligence: Principles and Techniques, Natural Language Processing, Deep Learning
Theory: Design and Analysis of Algorithms, Advanced Data Structures, Cryptography
Others: Android Application Development, Human Computer Interaction Design

EXPERIENCE

Software Engineering Intern, Goldwind *06/2019 – 09/2019*

- Designed an alternative, more backward compatible procedure using Python and pandas for wind turbine model simulation
- Can save mechanical and software engineers hundreds of hours per year in the future
- Utilized AWS services to transform and transfer data from nearby wind farms to the wind turbine blade department for analysis

Software Engineering Intern, Riva Negotiations *04/2019 – 06/2019*

- Extracted, labeled, and stored data from credible sources to aid the training of ML algorithm
- Developed a baseline algorithm for the company to compensate for the ML algorithm's cold start

SELECTED PROJECTS

Bloom-Bloomier Filter *03/2019 – Present*

- Context: Bloomier Filter is a data structure widely used in the compression of deep neural networks, accompanied by downfalls like low utilization of space and being static
- Working with a team to create an original data structure that improves on the Bloomier Filter
- Increased the utilization rate by up to 10 times compared to the traditional Bloomier Filter
- Designed a new workflow and made the data structure much more dynamic

Tesla Stock Predictor (Artificial Intelligence: Principles and Techniques Final Project) *10/2018 – 12/2018*

- Implemented a model with a team using Python that predicts Tesla stock prices
- Trained the model using recurrent neural network provided by Keras with data divided by scikit-learn
- Able to predict the shift of Tesla stock price (increased or decreased relative to the previous day) to a 60% accuracy

Heap Allocator (Computer Organization & Systems Final Project) *12/2018*

- Designed a heap allocator in C that support malloc(), realloc(), and free()
- Grouped memory blocks by size to further improve utilization on top of the basic requirements
- Reached an average of 90% utilization rate in test cases

OTHER

CS Section Leader, Stanford *04/2019 – Present*

- Taught about 10 students per quarter in an introduction CS class
- Responsibilities include but not limited to: grade assignments, provide feedbacks, host office hours, and organize sections

SKILLS

Programming Languages: Proficient with Python and C/C++, familiar with Java, and Kotlin
Tools & IDEs: Proficient with LaTeX, Familiar with Eclipse, Android Studio, AWS, and QtCreator
Operating Systems: Familiar with Android