

## SEAN SYED

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### EDUCATION

**University of Southern California, Viterbi School of Engineering** Aug 2017 – Dec 2021

Bachelor of Science, Computer Engineering and Computer Science (Dec. 2020) (GPA: 3.78)

Master of Science, Electrical Engineering, *Specialization: Machine Learning* (Dec. 2021) (GPA: 3.78)

### TECHNICAL SKILLS

**Programming Languages and Proficiencies:** Python, Java (Spring, Hibernate), HTML/CSS/JavaScript (React, LESS), Conductor, Jenkins, Spinnaker, Kubernetes, Postgres, C, C++, Verilog

### WORK EXPERIENCE

**Redfin Corporation**, Software Engineer I/II.

Jan 2021 - present

*Document Intelligence* (Oct 2021 – present)

- In **Python**, perform feature extraction and model selection against a corpus of files in order to segment file pages into separate documents, which are subsequently classified
- Achieve 70% segmentation and classification accuracy across over 50 business markets
- Communicate with users and gather feedback to investigate, cost, and implement changes to our different UX flows

*Transaction Efficiency Engineering* (Jan 2021 – Sept 2021)

- Build agent-facing tools to help optimize Redfin's closing process while leveraging **Java** and **JavaScript** frameworks
- Drive service-level objectives and monitoring of our asynchronous workflows in **Conductor**

**Children's Hospital Los Angeles**, Research Assistant

May 2020 – Dec 2020

- Take part in image processing efforts with an emphasis on normal and abnormal brain development
- Experimentally research a pipeline for unsupervised segmenting and labeling of MRI imagery pertaining to brain anatomy in fetuses, newborns, and children with various brain disorders

**USC ALCHEM**, Research Assistant (**Winner, Viterbi Research Showcase Competition**) May 2020 – Aug 2020

- Winner of 2020 Viterbi Research Showcase Presentation Competition
- In **C**, implement and benchmark distributed graph mining algorithm framework to operate across ALCHEM's distributed computing cluster
- Model a graph mining algorithm generator off of Automine in order to optimize compilation based on the given problem and graph that will be processed

**USC Viterbi School of Engineering**, Teaching Assistant

May 2019 – Dec 2020

- For USC's core data structures and algorithms course, design and lead labs with the goal of guiding students through using new tools at their disposal, such as **CMake** and **GTest**
- Write automated grading scripts to evaluate the performance of students' **C++** submissions against a preconfigured rubric

### PROJECTS AND OTHER EXPERIENCE

**Field Programmable Gate Array Evolutional Network**

Aug 2019 – Nov 2021

- Leverage evolutionary algorithms on to program **FPGAs** performing various classification tasks, which were benchmarked using **Verilog** and ingested by an Arduino in **C**
- Bypass latency associated with maintaining trained models by implementing behavior without the use of neural networks

**Center for AI in Society's Student Branch (CAIS++)**, VP Operations/Project Manager

Jan 2019 – May 2019

*VP Operations*

- Book speakers, manage finances, and coordinate meetings with project managers
- Manage working ledgers and rosters, and maintain the organization's website

*Project Manager*

- Supervise multiple project teams aimed towards constructing an RL chess engine
- Conduct research into various implementations of chess engines and work to reproduce them on our own