

Chris Weaver

Education

- Sep 19 – Dec 20 **UC San Diego**, *Master of Science, Computer Science*, Focus: Artificial Intelligence
Sep 15 – Jun 19 **UC San Diego**, *Bachelor of Science, Computer Science*, Summa Cum Laude, GPA – 3.951

Work Experience

- September 2019 **Graduate Student Researcher - NLP**, CMI/IBM, La Jolla, CA
– Present
 - Working with Professor Chun-Nan Hsu on applying state-of-the-art deep learning/natural language processing techniques to build biological knowledge bases.
- June 2019 – **Software Engineering Intern**, Amazon, Seattle, WA
September 2019
 - Improved invoice processing speed and accuracy by designing and building a service to perform optical character recognition and rule based key/value pair extraction.
 - Decreased onboarding costs to the service by 65% by creating a machine learning system that generates customized sets of rules in order to add new key/value pair targets.
 - Languages and Frameworks used: Python, OpenCV, scikit-learn, AWS Lambda, API Gateway, Textract, S3, DynamoDB APIs
- June 2018 – **Software Engineering Intern**, Amazon, Seattle, WA
September 2018
 - Developed JavaScript actions that allow other internal applications to easily perform one line integrations with Amazons internal image hosting service.
 - Integrated actions with existing merchandiser applications to combine separate tools and cut average time spent for each upload by 50%.
 - Redesigned an application that allows for navigation of the file system housing internal images to enhance engineers' ability to debug issues with image uploads.
 - Languages and Frameworks used: JavaScript, Node.js, React, Jest, Mocha, Enzyme
- March 2018 – **CSE Tutor/Teaching Assistant**, UC San Diego, La Jolla, CA
Present
 - Assist students at office hours, discussion, and lab hours to improve students' understanding of concepts.
 - Current TA for Operating Systems. Have been a tutor for Operating Systems, Data Structures, and Software Engineering classes.
- March 2018 – **Software Engineering Intern**, Embrace HealthWear, La Jolla, CA
June 2018
 - Built screens to informatively display health data for an alpha Android/iOS mobile application.
 - Languages and Frameworks used: JavaScript, Node.js, React Native

Projects

- March 2019 – **Hard Negative Mining for Correspondence**
Present
 - Adding locality sensitive hashing based hard negative mining into state-of-the-art correspondence networks (SuperPoint) to improve training speed.
 - Languages and Frameworks used: Python, PyTorch, C++, Boost.Python
- March 2019 – **Review Sentiment Classification**
June 2019
 - Built a semi-supervised, word-embedding based document classifier for a kaggle competition.
 - Final accuracy was in the top 5% of all submissions.
 - Languages and Frameworks used: Python, scikit-learn, FastText, numpy

Skills

- Languages Python, Java, C++, JavaScript, C, HTML, CSS, Octave
Technologies PyTorch, scikit-learn, OpenCV, Linux, AWS, Git, Docker, Kubernetes, React, Node.js, SQL, gdb
AI/ML Neural Networks (CNN, RNN), SVM, Boosting, Logistic Regression, KNN, Bayesian Models, MCTS

Awards and Honors

- Academic
 - Golden State Teaching Scholarship - Full funding for first year of Master's.
 - Summa Cum Laude - Top 1% of graduating class.