Parsa Dastjerdi

(U.S. Citizen)

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Education

Master of Science, Computer Engineering — *May 2021*
Texas A&M University; College Station, TX — GPA: 3.40

Bachelor of Science, Electrical Engineering — *May 2019*
Texas A&M University; College Station, TX — GPA: 3.80
Magna Cum Laude, Dean's Honor Roll

Experience

Amazon — Seattle, WA
Software Engineering Intern — *June 2020 - Aug 2020*

- Wrote API to compute relative difference between live and published plans in Planogram.
- Wrote Lambda to compute dispatch notes and labor estimation.
- Created accordion view for dispatch notes using AngularJS.

Texas Instruments — Dallas, TX
Design Verification Intern — *May 2018 - Aug 2018*

- Built a Verilog-AMS to TDL translator in Python to remove manual overhead of functional verification of chips.
- Used translator to automate TDL generation for two production chips.

Skills

Languages: Java, C++, Python, Ruby, Haskell, Javascript, SQL

Technologies: AWS, Kubernetes, Docker, Android

Frameworks: Rails, React, PyTorch, Keras

Coursework: Advanced Algorithms, Machine Learning, Probabilistic Graphical Models, Distributed Systems, Cryptography, Software Engineering

Projects

Sports Analytics
An integrated visualization tool for sports data analytics.

- Developed visualizations using Chart.js to display statistical results generated from sports data.
- Developed GraphQL server with Spring Boot.
- Created distributed web scraper for soccer data using SportsMonks' soccer API.

ZLP Scheduler
Scheduling app built using Rails

- Created full stack app to find an opening in student schedules
- Used Constraint Satisfaction (CSP) to determine optimal schedule

Sobr
Mobile application that prevents drunk driving by classifying intoxicated drivers through facial recognition.

- Used an ensemble of CNNs to correctly classify intoxicated drivers at 90.68% on the validation set.
- Placed 3rd out of 138 teams/800+ students and won "Best Use of SmartCar API" at TAMUHack 2019.

Body Gesture Recognition (make detectron into this??)
Texas A&M University; Advisor: Dr. Anxiao Jiang

- Researching methods to determine emotional state from body gestures directly from a video stream.
- Learning features from a 3D skeletal model generated using pose estimation techniques.