Hariharan Sezhiyan
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Skills and Abilities

- University of California, Davis, expected graduation: June 2020, GPA: 3.81
- Experienced in C, C++, Python, Java, Objective-C, Node.js, MongoDB, Javascript, MLflow, Docker, TensorFlow
- Github: **https://github.com/hsezhiyan**

Publications

- Code to Comment "Translation": Data, Metrics, Baselining, and Evaluation (in submission to ASE)
- Generic Reinforcement Learning Codebase (currently accepted in JOSS): publication ; repository

Work Experience

Machine Learning Engineer Intern at Zillow Group, Seattle, WA, June 2019 - September 2019

- Worked on the AI Platform team, a newly created team to support ML model experimentation and deployment
- Built an experimentation workflow aimed at "model reproducibility" which allows users to experiment with models in a containerized Jupyter notebook and track models on MLflow. Modified the MLflow dashboard to provide a link to a Jupyter notebook workspace, essentially allowing applied scientists to experiment with models exclusively on a web-interface

Javascript Developer at Innovation Minds, San Jose, CA, June 2018 - September 2018

- Helped design a proprietary innovation management platform, URL: innovationminds.com.
- Worked with Javascript, implementing features like progress tracking and social groups.
- Technologies used: Javascript (both frontend and backend), MongoDB (for database needs)

Research

DECAL (Davis Extreme Computational Analytics Lab), Davis, CA, September 2018 - Present

- Working with Professor Premkumar Devanbu to develop "intelligible" models to solve at least one or two core software tasks (code correction, refactoring, etc). I am currently working on a research project investigating the effectiveness of BLEU, a common metric for translation tasks, in software engineering tasks. I previously worked on using transformer models for software patching tasks.

FOR.ai, Remote, May 2019 - Present

- FOR.ai (www.for.ai) is an independent, remote research group with members around the world. Developed a generic reinforcement learning codebase that was accepted into JOSS (Journal of Open Source Software). Currently, working on curriculum learning for reinforcement learning agents.

Academic Projects

Founded AI Society at UC Davis, January 2018

- Founded AI Society (www.aidavis.org) at my university. This organization is designed to help students join a open, collaborative environment while also working on research/industry projects.
- Coordinated a mentorship program with VMware and UC Davis students

Technical Lead at Cyfer, June 2018 - September 2018

- Cyfer is a productivity app that collects time users spent of different apps/websites. Built the app for MacOS with Objective-C.