Kailun Li

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Objective

Seeking software development engineer intern position in summer 2019

Skills

Programming Languages: Java, C/C++, Python, JavaScript, HTML5, CSS3

Tools: MongoDB, MySQL, Google App Engine, Flask, webapp2, Bootstrap, Git, bash

Education & Coursework

Aug. 2018 - Dec. 2019 (expected)
M.S. Electrical & Computer Engineering at Georgia Tech, Atlanta, GA, US GPA: 3.75

Sep. 2014 - Jul. 2018
B.Eng. Electrical Engineering at Tianjin University, Tianjin, China GPA: 3.81

Coursework at Georgia Tech

DB Systems Concepts & Design
Advanced Computer Architecture
Advanced Operating Systems
Computer Network Security
Dependable Distributed Systems

Related Project

GIF Search and Retrieval System
Simulator of Modern Microprocessor in C++
Credit Scheduler Design in a Linux Thread Library
Shared Memory Based File Compression Service
Analysis of Disposable Email Services
Python Movie Info Application in Google App Engine

Project Experience

Advanced Operating Systems Course Projects *(Jan. 2019--Mar. 2019)*

Credit-Based Scheduler Design *(https://github.com/Kailun2047/credit_scheduler)*

- Implemented credit-based scheduler and SMP load balancing in **Linux** user-level thread library in **C**

Shared Memory Based File Compression Service *(https://github.com/Kailun2047/TinyFile)*

- Built synchronous and asynchronous APIs for Snappy-C compressor using **Linux** shared memory

Back-End Support for Movie-Browsing Application *(Dec. 2018--Jan. 2019)*

- Designed aggregation pipelines to interact with database using **Python3** and **MongoDB**
- Built APIs for faceted movie browsing, user and comment management with **Flask** framework
- Set up application on Atlas cluster and developed unit tests using **Pytest**

Search and Retrieal System for Animated GIFs *(Oct. 2018--Dec. 2018)*
(https://github.com/AnJianPeng/gif_retrieval_system)

- Overall: a GIF search and retrieval system containing 10,000 GIFs built with Redis database
- Extracted GIF representations by two clustering processes and generated tree structure
- Designed system front-end using **HTML/CSS/JS** and **Bootstrap 4** and interacted with GIF-based and text-based searching APIs (built by Django) using **JQuery**

Defect Classification in Eddy-Current Testing *(Feb. 2018--May. 2018)*

- Preprocessed the testing results and extracted geometrical features using OpenCV **Python** APIs
- Built and trained a neural network in **TensorFlow** and achieved 83% accuracy on 4 classes