SoYoung Park

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EDUCATION

UNIVERSITY OF PENNSYLVANIA
B.A. in Computer Science,
Urban Studies
Aug 2017 | Philadelphia, PA

SUMMARY

- Data Engineering
- Backend Development
- Deep Learning Model Production Pipeline

TECHNOLOGY

NodeJS • Python • AWS • Spark • Docker
Cassandra • Postgres • Unix • Redshift
Java • PHP • C • MySQL • PostgreSQL
Ruby • OCaml • Prolog • C++ • Assembly

LINKS

Github:// **soyoungpark**
LinkedIn:// **soyoungpark05**
DevPost:// **soyoungpark**
Twitter:// **@soyoung_park**
StackOverflow:// **ampersands**

COURSEWORK

COURSERA
Neural Networks and Deep Learning
Machine Learning by Andrew Ng

UNIVERSITY OF PENNSYLVANIA
Networks and Security
Automata, Computability, and Complexity
Database and Information Systems
Paradigms of Programming
Data Structures and Algorithms
Introduction to Computer Architecture
Programming Languages and Techniques I
Programming Languages and Techniques II
Introduction to Algorithms
Software Design & Engineering
Mathematical Foundations of Computer Science

EXPERIENCE

HIVE | Backend Engineer
Nov 2017 - current | San Francisco, CA

- Built and Dockerized facial recognition Python pipeline that embeds face images to vectors using Caffe & Tensorflow (based on 2015 FaceNet paper: https://arxiv.org/abs/1503.03832)
- Built and deployed (pm2 + Marathon) Node ETL pipeline to record, encode and classify (action type) media streams from UDP sources
- Built RESTful APIs with NodeJS, Postgres, and Advanced Messaging Queuing Protocol (RabbitMQ)
- Built unit and system testing suites with Mocha & Chai
- Refactored legacy codebase, migrated database tables with 0 downtime

EPICERIE (ACQUIRED) | Co-founder & Full Stack Engineer
Mar 2015 - Mar 2016 | Seoul, South Korea

- Co-founded an on-demand grocery delivery startup (www.epicerie.kr), acquired by Inmost Partners in Jul 2017.
- Built PHP backend with MVC (Codeigniter) framework and MySQL database hosted by AWS. Built public and private APIs.
- Increased user retention from 60% to 88% by implementing multiple features including automated reminder email system (retention tracked through Mixpanel and Google Analytics plugin)
- Built and deployed web and mobile-accessible application using HTML, CSS, JavaScript, and PHP template engine (Smarty)

ARCHITECTURE & COMPILERS GROUP AT UPENN |
Undergraduate Researcher
May 2014 – Aug 2014 | Philadelphia, PA

- Wrote python and shell scripts to automate anomaly detection in multi-threaded processing.
- Actively participated in weekly research reading.

SELECTED PROJECTS

TENSORFLOW TRAFFIC CONGESTION CLASSIFIER Aug 2017

- Built a traffic congestion level classifier using Tensorflow, using 10,000+ custom-scraped images of 5th Avenue, NYC (src: www.earthcam.com)
- Achieved 85% accuracy in classifying traffic level of given image

HACKMIT 2016 : STOCK PRICE PREDICTION Sept 2016

- Used Keras neural network library to examine the relationship between public sentiment and stock prices for seven major companies.
- Used time series data from NASDAQ API and sentiment data from StockTwits API. Prediction visualized using D3.js .

3RD PLACE UNITHON 2015 : ALPHABET 2048 Sept 2015

- Implemented linear-time Gaussian blur algorithm for Android game

3RD PLACE FEMMEHACKS 2015 : CAMPUS COUTURE Feb 2015

- Created a dress-swapping web app using Python, Flask and SQLite.