Andrew Low

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EDUCATION

CARNEGIE MELLON

BS in Computer Science
Expected May 2018 | Pittsburgh, PA
Minor in Machine Learning
GPA: 3.95 / 4.00 (Dean's List)

COURSEWORK

GRADUATE

Machine Learning with Large Datasets*
Automated Program Verification*
Parallel Computer Architecture*
Search Engines
Natural Language Processing
Algorithm Design and Analysis
Intro to Machine Learning

UNDERGRADUATE

Modern Regression*
Mathematical Statistics (Honors)
Parallel and Sequential Data Structures
Introduction to Computer Systems
Great Theoretical Ideas in CS
Functional Programming
Probability and Random Processes
Competitive Programming
Matrices and Linear Transformations
Principles of Imperative Computation
(2016 Fall Teaching Assistant)

* Ongoing Coursework

SKILLS

LANGUAGES

Java • Javascript • Bash • Python •
C/C++ • SQL • SML

FRAMEWORKS

Play • Kafka • Hibernate • React •
Angular

DEVOPS

Kubernetes • Docker • Ansible •
Fleet

NINJA VAN | Software Engineering Intern

Jan - July 2017 | Singapore

- Built Ninja Easy's backend, a delivery app enabling on-demand pick-up and delivery services with real-time tracking, launched across Southeast-Asia
- Migrated container orchestration to Kubernetes from CoreOS' Fleet
    - Configured Nginx loadbalancer to leverage Kubernetes' service discovery
    - Wrote a series of Ansible scripts for automated CI deployments

AKELES CONSULTING | Software Engineer

Spring - Summer 2014 | Singapore

- Developed popular JIRA workflow extensions for SLA tracking, configurable dynamic status transitions in JIRA's workflow engine, charting and automatic round-robin assignment of open tickets
- Implemented a JIRA dashboard tool which generates search UI interfaces from templated query strings for searching tickets

SINGAPORE ARMED FORCES COUNSELLING CENTRE

Research Assistant (3rd Sergeant)

Feb 2012 – Jan 2014 | Singapore

- Automated employee scheduling system using genetic algorithm
- Developed an SMS-based appointment tracking and scheduling system
- Developed an Outlook email engine for automated appointment scheduling

DEFENCE SCIENCE AND TECHNOLOGY AGENCY

Software Engineering Intern

May - August 2015 | Singapore

- Created a web tool which extracts data models from static CSV files
- Developed functionality for generating restful APIs from data models, and manipulation using a data grid web interface

PERSONAL PROJECTS

Kube-Linode

- Automatically provision a scalable HA CoreOS/Kubernetes cluster on Linode

Hyde

- Interactive map which visualizes realtime geo-tagged social media and their analysed sentiment. Won top 10 at Hackathon@SG (Open Category).

Ora.sh / Inquirer.sh

- Set of bash utilities to create modern terminal prompts and spinners

Hacobot

- Automatic CMU course scheduler using simulated annealing

CMU Cloud Printing App (IOS/Android)

- Cloud printing to CMU's Andrew Printing service (using Node.js with CUPS)

AWARDS

2015   Hackathon@SG - Top 10 (Open Category)
2013   Defence Management Group Excellence Award