

# 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