Akshat Mahajan

akshatm.bkk@gmail.com   (512)-903-7891   www.akshatm.com

EXPERIENCE

Daily Bruin Online — Los Angeles, CA
Web Developer / DevOps Team Lead — 9/2015 - Present

- Leading core DevOps team, transitioning live 300k views/month site to cloud platforms. Handling all Student Media infrastructure operations.
- Led team of five in building secure database of real-time updated news contacts using Node.js and OAuth verification scheme.

DataWeave Software — Bangalore, India
Data Systems & Engineering Intern — 6/2015 - 9/2015

- Granted sole responsibility over three independent intensive projects - and delivered within timeframes. Improved precision/recall of prior processes by as much as 80%.
- Designing front-end API interfaces for internal use using Twitter Bootstrap, React.js and AJAX that improved QA assessment and clustering performance tracking.
- Performing scalable natural language processing in bulk over short semi-structured texts using Google's Word2Vec neural network and hand-built Python-based clustering system.

UCLA Radiation Belt Modeling Group — Los Angeles, CA
Research Assistant — 8/2014 - 9/2015

- Automated the generation of highly intuitive heat maps in MATLAB for researchers to predict electron flux over time. Reduced processing time by 50%.
- Built a data cleaning and packaging framework using a k-means clustering algorithm for internal use. Worked with large (> 6 GBs per pass) datasets.

NASA Fellowship Researcher — Los Angeles, CA
Planetary Data Systems - Student Investigator — 7/2013 - 3/2015

Paid two-year research program, using Python modules numpy, scipy to model Earth's long-term atmospheric changes. One of only 5 such fellowships awarded nationwide.

TECHNICAL SKILLS
Software

Python (strong); Javascript (strong + Node.js and client-side experience); C++ (moderate); Android and Java (moderate); Scala (beginner); NoSQL (MongoDB + Solr); SQL; HTML5 + CSS3 (strong + Foundation/Bootstrap/Semantic UI framework experience); bash (moderate); git (strong); Linux experience

SELECTED PROJECTS

hashable-collections, a Python library that creates potentially immutable hashable lists and dictionaries. *Averages several hundred monthly downloads.*

NoteTaker, a client-side persistent note-taking Javascript app. A React.js, Semantic UI and local storage experiment that can be used by anyone.

Scribe, a Chrome extension that adds automatic human-friendly hyperlinking and image embedding for Gmail. Utilises own RESTful API architecture. *Version 1.0 (beta)*

G-Locate, an Android app that uses geolocation techniques to display population density over various spatial scales from user location data.

Custom blogging engine, using CherryPy web server, Jinja2 templating engine and MongoDB database.

Argus, a PhoneGap experiment that implements geo-location based (rather than temporal) alarms. *In progress.*

EDUCATION

University of California, Los Angeles (UCLA) — Los Angeles, CA
Bachelor of Science, Physics , expected June 2016 — GPA: 3.74/4.00

Extra Classes

Systems & Signals, Computer Networks: Physical Layer, Statistical Programming (graduate class), Data Science: Algorithmic/Mathematical Foundations, Discrete Mathematics

EdX Classes
(UC-Berkeley)

Scalable Machine Learning *(Grade: 100%)* — June 2015
Intro. to Big Data Using Apache Spark *(Grade: 92%)* — June 2015

DISTINCTIONS

Top Writer 2016, *Quora* — January 2016

2015 Sharpe Fellow, *University of California, Los Angeles* — October 2014