Tony Salim

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EDUCATION

University of California, San Diego — 3.7 GPA   **B.S. Computer Science**   Graduating on **DEC 2017**
Pasadena City College, Pasadena — 3.7 GPA   **A.A Mathematics**   Graduated on **May2015**

Related Courses
Core   : Data Structure, Software Engineering, Computer Organization, Computer Architecture, Data Structures, Algorithms, Operating System, Programming Language, Compiler Construction
AI/ML : Modelling & Data Analytics, A.I Statistical Approach, A.I Reinforcement Learning, Computer Vision, Data Mining, Neural Network
Web : Interaction Design, Advanced HCI Programming, Back-end Web Programming & Database

EXPERIENCE

Data Science Intern   San Diego Supercomputer Center   **July 2017 - Current**
- Preprocessed and Analyzed real-time Geolocation data using python GDAL and pandas libraries.
- Implemented various feature extraction strategies to obtain important features from multiple Geolocation data such as designing kernel for convolution, parameter tuning and ensemble method.
- Designed and trained pipelines multiple machine learning model to be used in a real time web application
- Developed a REST API with python Flask framework for a real-time runtime prediction for a wildfire analysis

Intern   Cloudlanes   **July 2017 - Sep 2017**
- Tested and deployed Cloudlanes Backup Accelerator server to VMs on Azure, Google Cloud Platform and Digital Ocean
- Researched and configured a backup mechanism using Veeam on Windows server to backup data from on-prem to Azure blob storage through Cloudlane's backup accelerator server
- Collaborated with fellow interns in researching storage and cloud infrastructure of several UCSD department to gain insights on different Cloud technologies and application of backup accelerator technology

Computer Science *Tutor*   University of California, San Diego   **Sep 2016 - Dec 2016**
Course: CSE 103 - Probability and Statistics   Class size of 200+, Section size of 20+
- Assist students in learning foundational knowledge in statistics, such as counting, probabilities, inferential statistics.
- Facilitated additional instructional discussion hours for students alongside TA, helping students to have deeper understanding of materials

Computer Science *Tutor*   Pasadena City College   ***Feb 2014 - May 2015***
Courses: C++ and Object Oriented Programming, and Data Structures   Class size of 30+
- Assist students to learn foundational knowledge in programming in C++ and various data structures.
- Planned and facilitated a supplemental instruction program for CS students with CS faculty instructors and tutors.

PROJECTS

Pintura - NodeJs GeoAPI App *(2017)*   *NodeJs, Express, Leaflet*
- ➔ Developed a mobile app that uses Leaflet.js GeoAPI to allow map based photo sharing application.
- ➔ Implemented client and server side functionality for the main functionality of the map page.
- ➔ Implemented persistent client session and user account of the application.

Mindlee - NodeJs Web App *(2017)*   *NodeJs, Express*
- ➔ Developed a mobile app that manages user stress level and notify user of their desired stress level.
- ➔ Designed a responsive front-end interface with w3 and Express API.

CoupleTones - Android *GeoLocation (2016)*   *Java, Android,Firebase,JIRA*
- ➔ Developed an app that tracks user's location and notifies users of their favorite location and proximity to the location
- ➔ Implemented the backend with Firebase and Google Messaging API to store locations and networking features

Knowledge Retaining Chatbot — *AI* (2015)   *C++, Qt, SQLite*
- ➔ Designed and implemented natural language processing toolkits such as lexical analysis, and parsing libraries in C++
- ➔ Implemented database to support the application with Qt framework and SQLite
- ➔ Designed a command line chat bot that can answer questions based on given facts during the conversation

Puzzle Solver — *AI, Simulation (2015)*   *C++, Qt, OpenGL*
- ➔ a N-dimensional sliding puzzle solver that uses A* graph search algorithm with customized heuristic method to find the most optimal path to solve board configurations and animate the resulting path.

SKILLS

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Proficient:

            Python •
               C++ •

Familiar:

            Java •
               C •
      JavaScript •
        Assembly •
            Bash •
             Awk •
           OCAml •
          MATLAB •
             PHP •

Tools:
             Git •
             Vim •
           Linux •
          SQLite •
      PostgreSQL •
         Android •
             Ant •
        Firebase •
           Azure •
        CircleCI •

Python Library:
          Pandas •
         Jupyter •
         sklearn •
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Web Framework

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Node.Js + Express,
Flask, PHP, Leaflet
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AWARDS

Dean's Honor
(2013-2015)

Honors in Mathematics (2015)
awarded by Pasadena City College

Basic Certification
(2015) awarded by National Tutoring Association