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

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 •

Web Framework

Node.Js + Express, Flask, PHP, Leaflet

AWARDS

Dean's Honor (2013-2015)

Honors in Mathematics (2015) awarded by Pasadena City College

Basic Certification (2015) awarded by National Tutoring Association