Dev Kapupara | devkapupara@gmail.com | (669)-350-5052

Education

SAN JOSE STATE UNIVERSITY | SAN JOSE, CA | GRADUATION: SPRING 2020

- Major: BS in Applied & Computational Math and Computer Science (Double major)
- **GPA: 3.78/4.0**
- Related coursework: Data Structures and Algorithm, Object Oriented Design, Database Management Systems, Operating System, Advanced Python, Combinatorics, Linear Algebra, Numerical Analysis (Calculus and Matrices)

Skills

Coding: Java, Python, C, JavaScript, jQuery, Flask, Django, SQL, NoSQL, Git, Bash, HTML, CSS
Technologies/Environment: HBase, Cassandra, MongoDB, MySQL, Mockito, Junit, Google Guice, Heroku, Windows, Unix

Experience

VERIZON MEDIA | YAHOO MAIL | JUNE 2019 – AUGUST 2019

Software Engineering intern for the Yahoo Mail Search Metadata team. Worked on 4 projects:

- SLAChecker: **Designed SLAChecker tool** that monitors the health of regions in HBase. Tracks decommissioned regions and brings them back online automatically after a set period of time. Helped the Yahoo Mail Dev team for **statistics analysis** and **prevent human intervention** for fixing **thousands** of regions, thereby saving tens of man-hours.
- Access Log Requests: Log requests related to user's Mail inbox based on its type (Create folder, View Messages, Delete Message etc.) for Splunk Analysis. **Classification of request by types to identify hotspots and success/failure counts.**
- MailBoxQueryTool: Implemented a feature in the MailBoxQueryTool for the backend team to list messages inside a folder by consuming the user-inputted parameters. Tool used in resolving customer complaints by the backend team.
- Spam Messages Search Tags: Analyzed and removed the redundant search tags being generated for emails in Spam folder. Helped in **server load reduction** and **9.5% of storage space**.

SAN JOSE STATE UNIVERSITY | PEER CONNECTIONS | AUGUST 2018 – PRESENT

Lead Tutor at Peer Connections. Tutor Math and CS, conduct weekly meetings, assist and manage other tutors

SAN JOSE STATE UNIVERSITY | CS DEPARTMENT | AUGUST 2018 – PRESENT

Lab Facilitator and Grader for CS 46B; solve doubts; grade assignments and labs; submit weekly reports

Projects

- Numalyze (Fall 2019): **Numerical Analysis web application** written in Pure Python and Flask, deployed on Heroku (https://numalyze.herokuapp.com).
  - No need for source code or development environment like MATLAB to run these algorithms.
  - **Listed on instructor's syllabus** as a tool for students to refer to for the solution to problems.
- Grading Automation (Fall 2018): Python script that **grades entire section's submission** *(Python)*
  - Automating compilation and running Java programs, calculate score and upload it on Canvas.
  - Helped grading team to automate the process for grading **180+ submissions**.
- 2-3 Tree (Spring 2018): B-Tree of factor 3. *(Java)*
  - Designed **Generic 2-3 Tree** as viable replacement to Java's AVL Tree.
  - Gained knowledge of efficient way of data organization (B-Trees) and insights into Java Generics.

Links

- Portfolio: https://devkapupara.github.io/
- GitHub: https://github.com/devkapupara
- LinkedIn: https://www.linkedin.com/in/devkapupara/