ARSELAN ALVI

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Summary

- Upcoming BSSE graduate offering strong background in Web Programming, Algorithms and Object-Oriented Programming.
- A skilled communicator; able to maintain cultural sensitivity, establish connection with members of diverse groups, and promote team cohesiveness.

EDUCATION

San Jose, CA   San Jose State University

- Bachelor's in Software Engineering.   Expected: 05/2019

TECHNICAL EXPOSURE AND PROJECTS

Aurora   *[PHP, MySQL, HTML/CSS, Bootstrap]*   Fall 2018

- Image based social networking Website where users can sign up, post, buy, and sell images.
- OOP using PHP as server side back-end interface to the MySQL database to make queries linking the database and webserver

Demand Forecasting using Neural Networks   *[Python, LSTM neural networks, Keras, Theano, Django]*   Fall 2018

- Short-term demand forecasting system website using LSTM neural network, which would provide user with an accurate forecast of their data for any time-period they desire. Hosted on Amazon EC2 server.

Café Mocha   *[Java EE, Apache Tomcat, OAuth, MySQL, JDBC, Jenkins, Git, HTML/CSS/JS]*   Spring 2018

- A coffee shop management website tool (for the manager) to keep track of the employees.
- Implemented Single-Sign on OAuth, CRUD search.

Munchies   *[Java EE, Apache Tomcat, MySQL-phpMyAdmin, CSS/HTML]*   Spring 2018

- Online shopping website hosted on Apache Tomcat where user can shop for groceries.
- Worked on the Java EE back-end of the application and JDBC connectivity.

Space Invaders Game   *[C++, Open Frameworks]*   Spring 2018

- Vintage 2D shooter arcade game using Object-Oriented Programming and Open Frameworks.

Banking System   *[Java, C, JDBC, IBM-DB2]*   Fall 2017

- Online Banking system application where I implemented JDBC connectivity by querying IBM-DB2 Database.

Plagiarism Checker   *[Java]*   Spring 2017

- Plagiarism Checker application which would read a file and compare it with another and would tell if its plagiarized or not.
- Takes user input for number of words to check plagiarism. Runs at O(n) speed. Algorithms.

LANGUAGES, TECHNOLOGIES AND TOOLS

Languages:

- **Back-end:** Java, C/C++, PHP, Python, SQL.
- **Front-end:** JavaScript, HTML/CSS
- **Database:** MySQL, SQLite, IBM-DB2

Software Technologies and Systems:

- **Systems:** Unix/Linux, IOS
- **Tools:** Java EE, Java Swing, phpMyAdmin, Apache, JDBC, Jenkins, Git, Open Frameworks, Unity.

Software Concepts:

- Object Oriented Programming, Algorithm Development and Data Structures, Web Development, Competitive Programming, Operating Systems, Computer Architecture TCP/IP/UDP, Game Development, Software Engineering Management.

EMPLOYMENTS

Math Department   San Jose State University   Sept 2016 – Present

- Grader and tutor for graduate and senior math courses. Provided 20 hours of tutoring per week resulting in overall grade improvement of 100% students I tutored. Courses: Calculus I-IV, Numerical Analysis and Scientific computing, ISE.

Hospitality Management Department   Mission College   October 2014 – June 2016

- Teachers Assistant in the hospitality management department where I designed menus and brochures for numerous catering events and assisted the administrative head by managing students' grades and scheduling the events.

AWARDS

Public Speaking Tournament, Mission College   Fall 2015

- Awarded 2nd prize in public speaking contest at Mission College for my speech on Scientology.