ARSELAN ALVI

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SUMMARY

- Upcoming BSSE graduate offering strong background in Networking, 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**
- **Coursework:** Database Management Systems, Object Oriented Programming, Operating Systems, Computer Networks, Game Design, Enterprise Software Platforms, Data Structures and Algorithms, Computer Architecture, Website Design, Software Engineering and Architecture, Software Engineering process management, Information Security, Server-side web Programming.

TECHNICAL EXPOSURE AND PROJECTS

Aurora [Tools: 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 [Tools: 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 [Tools: 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. (Single-Sign on - OAuth, CRUD).

Munchies [Tools: Java EE, Apache Tomcat web-server, MySQL hosted on phpMyAdmin, CSS & HTML]　　　**Spring 2018**

- Online shopping website using Java as back- end and CSS & HTML as front-end. Website hosted on Apache Tomcat webserver.
- Saves the user's transaction history and account information in MySQL database hosted on phpMyAdmin.

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

- Vintage 2D shooter arcade game using Object-Oriented Programming. (on Android Platform)

Banking System [Tools: Java, C, JDBC, SQL]　　　　　　　　　　　　　　　　　**Fall 2017**

- Banking system using the IBM- DB2 Database and Java Database Connectivity Interface (JDBC).

Plagiarism Checker [Tools: Java]　　　　　　　　　　　　　　　　　　　　　**Spring 2017**

- Plagiarism Checker application which would read a paragraph 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:

- Java, C++, PHP, C, Java Script, Python, C#, HTML, CSS, XAML, SQL, MIPS.

Software and Systems:

- MS Office, Unix/Linux, IOS, Visual Studio, Open Frameworks, WPF, Ansible, .NET, IBM-DB2 (Big Data Storage) and JDBC, MySQL, OAuth-Single Sign On, Keras, LSTM Neural Network, Django, Theano, Salesforce, Jenkins, Java EE, JSP servlets, GUI Swing, phpMyAdmin-MySQL, Apache Tomcat and Karaf, TCP/IP & UDP, socket programming, Justinmind Prototyper.

Other:

- Object Oriented Design, Algorithm development, Debugging, Web development, Competitive Programing.

EMPLOYMENTS

Math Department　　　　　　　　　　　**San Jose State University**　　　　　　　　**Sept 2016 – Present**

- Work in Math Department as a Grader, Tutor and workshop facilitator for calculus I-IV, Numerical Analysis and Scientific Computing and help students solve queries in Math.

Hospitality Management Department　　　　　　　**Mission College**　　　　　　　**October 2014 – June 2016**

- Designed new Brochures and menus for various Events using JustinMind Prototyper and Adobe Photoshop.
- Managed students' grades & assist the chef in the Kitchen.

AWARDS

Public Speaking Class, Mission College　　　　　　　　　　　　　　　　　　　**Fall 2015**

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

HOBBIES

- Travelling, Photography and playing guitar.