Mandeep Kaur

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SUMMARY

- Experienced software professional with extensive experience in back-end design and development of both relational and No-SQL databases.
- Well-versed with both waterfall and agile environments of software development.
- Hands on experience on machine learning libraries building 3-layer convolutional neural network.

EDUCATION

- **MS in Software Engineering**, San Jose State University, USA, **GPA: 3.54**   **2016 – Dec 2017**
- **B. Tech in Computer Science**, Guru Gobind Singh Indraprastha Univ., India, **GPA: 3.94**   **2011 - 2015**

TECHNICAL SKILLS

Programming Languages	**Java**, **JavaScript**, Python, PHP
Web Technologies	JSON, **REST**, XML, HTML5, CSS3
Libraries/Frameworks	**Node.js**, **Spring,** AngularJS, React Native, TensorFlow, NumPy
Database	**MySQL**, **MongoDB**, Oracle 10g
Cloud Technologies	IBM Bluemix, **Google App Engine, AWS** (EC2, ELB, S3), **Heroku**
Tools/Platforms/APIs	Eclipse, **Git**, OpenCV, Jira, Kanban, **Firebase**, Stripe

WORK EXPERIENCE

Software Engineer Intern (Volunteer), GoLoad Inc (Node.js, Stripe, Firebase, React Native)   *June 2017 - Present*
- Responsible for handling the back-end development of the payment module of the application.
- Writing cloud functions to handle real-time data by triggering the events provided by firebase.

Software Engineer Intern, Toyota ITC, USA, Inc., Mountain View, CA (Python, Tensorflow)   *Feb – May 2017*
- Developed benchmark model of a system with autonomous functionality using neural networks in Python.
- Build convolutional neural network for classifying the dataset of 60,000 images into 62 different classes.
- Used tensorflow library for image recognition and training with 92% accuracy.

Web Application Intern, Power System Operation Corporation Ltd (HTML/CSS, JavaScript, PHP)   *June – Aug 2014*
- Developed a user-friendly by providing great navigational features, responsive design web application to handle department level complaints faced by employees.
- Increased organizations' efficiency 10% by automating the manual work.

RELEVANT PROJECTS

Events in the City, SJSU (Node.js, MongoDB, MySQL, AWS EC2, HTML/CSS, AngularJS)   *In Progress*
- Developing a web based portal to display technical and recreational events taking place in SF Bay Area.
- Using various APIs like Meetup.com, Eventbrite.com to extract and display all the events on one platform.

Integrated Disease Surveillance Program, SJSU (Python, HTML/CSS, MongoDB, PhoneGap, AWS (EC2, ELB))   *Fall 2016*
- Developed a prediction engine to predict the chances of an outbreak of a contagious disease in an area.
- Compared logistic regression output with different algorithms to have best accuracy i.e. 76%.
- Worked on the database population and ETL (Extraction, Transformation and Loading) process.

Face Recognition, SJSU (Python, OpenCV, HTML/CSS, MySQL)   *Spring 2016*
- Successfully developed a face detection app to identify the person from his image with 95% accuracy.
- Used different databases for training and haar feature-based cascade classifier for face detection in OpenCV.

Online Library Management System, SJSU (Spring MVC, Google app Engine, Cloud Store, JavaScript)   *Fall 2016*
- Successfully developed a web based application to manage various aspects of university library system.
- Implemented various features like cataloging, search, circulation, and wait list of the books using Spring MVC.

PUBLICATION: Operational Transformation in Co-operative Editing, IJSTR   *Spring 2016*
Paper talked about various issues in collaborating documents and presented real-time solutions for the same.