

Mandeep Kaur

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SUMMARY

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

WORK EXPERIENCE

Software Engineer Intern, GoLoad Inc (Node.js, Stripe, Firebase, Cloud Functions, Google App Engine) **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**

- Designed and implemented a user-friendly web application by providing great navigational features, responsive design to handle department level complaints faced by employees.
- Increased organizations' efficiency 10% by automating the manual work of sorting and reviewing the hardware and/or software problems faced by employees'.

TECHNICAL SKILLS

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

RELEVANT PROJECTS

Events in the City, SJSU (Node.js, MongoDB, MySQL, AWS EC2, HTML/CSS, AngularJS) **In Progress**

- Building 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, 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.

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**

PUBLICATION: [Operational Transformation in CO-OPERATIVE Editing, IJSTR](#) **Spring 2016**

- Cooperative Editing Systems in real-time allows a virtual team to view and edit a shared document at the same time.
- Paper discussed various issues and presented the real-time solution for providing a platform in collaborating documents.