

Mandeep Kaur

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WORK EXPERIENCE

Software Engineer Intern, Pyze Inc, Redwood City, CA (JavaScript, HTML/CSS, Java, Vue.js, gulp, webpack) **Feb 2018 - Present**

- Working on the **Pyze backend platform** and web agent.
- Working with the team to implement new features in the Pyze product.
- Turning ideas and mockups into new features using HTML, CSS, JavaScript and jQuery.
- Implemented various webpage optimization techniques like **Minifying JS files**.
- Worked on providing support for offline web applications, **progressive web applications** using IndexedDB.

Software Engineer Intern(Volunteer), GoLoad Inc (NodeJS, Stripe, Firebase, Cloud Functions) **June - Nov 2017**

- Responsible for handling the **back-end development** of the payment module of the application using **Stripe API**.
- Worked on writing **cloud functions** to handle real-time data by triggering the events provided by firebase.
- Implemented user creation using **Firebase authentication** & sent the reset password email to complete the signup process.
- Developed a utility function to write data to Firebase database by reading data from Excel sheet.

Teaching Assistant, San Jose State University, San Jose, CA **Sept – Dec 2017**

- Teaching assistant for **compiler design** under-graduate course & assisting professor in **grading** the papers and assignments.

Software Engineer Intern, Toyota ITC, USA, Inc., Mountain View, CA (Python, Tensorflow, Numpy) **Feb – May 2017**

- Developed benchmark model of a system with autonomous functionality using **neural networks** in Python.
- Built a 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.
- Wrote the **CRUD operations** using the data generated in JSON file on **DocumentDB** hosted on Microsoft Azure Cloud.

Web Application Intern, Power System Operation Corporation Ltd (HTML/CSS, JavaScript, PHP) **June – Aug 2014**

- Developed a user-friendly responsive web application to handle department level complaints faced by employees.
- Increased organizations' efficiency 10% by automating work of sorting & managing the issues reported by the employees.

TECHNICAL SKILLS

Programming(Front-end/Back-end)	Java, JavaScript, Python, HTML5, CSS3
Web Technologies	HTTP, HTML, CSS, JSON, REST, jQuery
Libraries/Frameworks	Node.js, Spring, TensorFlow, NumPy, Vue.js, Flask
Database	MySQL, MongoDB, Firebase
Cloud Technologies	IBM Bluemix, Google App Engine, AWS (EC2, ELB, S3), Heroku, Cloud Functions
Others	Git, OpenCV, Jira, Kanban, Stripe, Gulp, Webpack, Postman

RELEVANT PROJECTS

Events in the City, SJSU (Node.js, MongoDB, MySQL, AWS EC2, HTML/CSS, AngularJS) **Fall 2017**

- Built a **web based portal** to display technical and recreational events taking place in SF Bay Area.
- Used various APIs like Meetup.com, Eventbrite.com to extract and display all the events on one platform.

Amazon Recommender System, SJSU (Python, Spark) **Fall 2017**

- Performed **logistic regression** on Amazon product ratings and reviews dataset available through Stanford website.
- Built recommender system, **item based collaborative filtering** using **k-nearest neighbors** having **85%** accuracy.

Face Recognition (Personal Project) (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**.

UML Java Parser, SJSU (Java, Yuml (for class diagrams)) **Spring 2016**

- Developed **JAVA** application to accept an input of multiple java source files and generate class diagram as .png image.

EDUCATION

MS in Software Engineering, San Jose State University, USA, GPA: 3.6 **2016 – 2017**

B. Tech in Computer Science, Guru Gobind Singh Indraprastha Univ., New Delhi, India, GPA: 3.94 **2011 - 2015**

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

- Paper discussed various issues and presented the real-time solution for providing a platform in collaborating documents.