

# Dharmin Shah

+1(213) 275-7045 | Los Angeles, CA 90007 | [dharminu@usc.edu](mailto:dharminu@usc.edu) | [LinkedIn](#) | [Website](#)

## EDUCATION

### University of Southern California | Masters in Computer Science

GPA: 3.9/4

Los Angeles, California • Analysis of Algorithms, Database Systems, Advanced mobile and game console

**Dec 2021**

### Veermata Jijabai Technological Institute | B.Tech in Computer Engineering

CGPA: 8.83/10

Mumbai, India • Algorithms, Web Development, Artificial Intelligence, Operating Systems, Machine Learning

**May 2018**

## TECHNICAL SKILLS

**Programming Languages:** Python, C, C++, Java, HTML, JavaScript, PHP, C#, PeopleCode

**Systems:** Windows, Linux, MacOS

**Technologies:** TensorFlow, Pandas, Matplotlib, Splunk, NumPy, Spark, NLTK, Git

**Cloud:** Amazon AWS (Lambda, VPC, EC2, S3, Redshift, EMR), GCP, Docker, Kubernetes

**Database:** Oracle, MySQL, SQL Server, PostgreSQL

**Software and Tools:** Unity, JIRA, REST API, Hadoop, Android Studio

## WORK EXPERIENCE

### Nomura Services India Pvt. Ltd., Mumbai, India | Developer Analyst

**Jun 2018–Sept 2019**

- Developed new Application Engines for data processing logic, display Pages and processes to automate recurring tasks maintaining stock volatility and critical trade-related data for ERP Software PeopleSoft (**PeopleCode**)
- Turned reporting needs into robust SQL queries to extract data and compile them into meaningful reports (**Oracle** database and **PL-SQL** programming) and shell scripting for Linux administrative tasks (**Perl, Bash**)

### Samsung Research and Development, Bangalore, India | Research Intern

**May 2017–Jul 2017**

- Laid the foundation of Simultaneous Localization and Mapping (SLAM) on Android devices for AR applications at Samsung
- Gained working knowledge of the Computer Vision based ORB-SLAM 2 Algorithm and ported Tracking, Mapping and Loop Closure elements of the algorithm on Android devices (**Java, C++, OpenCV, Pangolin, Eigen3, DBoW2**)
- Profiled performance on phone to compare with that of desktop and improved stability for live feed keyframes insertion

### Mahindra & Mahindra Ltd, Mumbai, India | Software Development Intern

**Jun 2016–Jul 2016**

- Performed automated testing and ad-hoc manual testing for identifying bugs in company consumer websites: [withyouhamesha.com](http://withyouhamesha.com) and [mahindrasyouv.com](http://mahindrasyouv.com) on desktop and mobile devices with varied browsers

### Prosares Solutions Pvt. Ltd., Mumbai, India | Software Development Intern

**May 2016–Jun 2016**

- Hosted and delivered an online survey form as per client requirement for all employees of firm to rank various company services and provide their feedback (**ASP.NET MVC framework, C#, SQL Server 2008**)

## PROJECTS

### Distracted Driver Detection and Classification

- Classify input dashboard camera image into ten categories based on reason for distraction of the driver of a car
- Trained base Convolution Neural Network on Google Cloud Platform in **Python** using **Keras** and **TensorFlow** libraries
- Created ensemble of VGG-16, VGG-19 and InceptionV3 model with data augmentation to achieve accuracy of 0.89

### Social Media Website

- Fabricated a social media platform with **PHP, HTML, JavaScript, CSS, MySQL** to connect with friends and enable sharing, re-sharing, liking and commenting on friends' pictures and posts visible on personal newsfeed
- Implemented messenger functionality to chat with friends leveraging **AJAX** and **JQuery**

### Official VJTI Entrepreneurship cell Android Application

- Launched android application to brief users about various events in the fest and register for those in **Java** and **XML**
- Application marked more than 1000 installs within a year on Google Play Store with an average user rating of 4.5

### Corporate Clash

- Collaborated with Team Advance Game Projects, USC to devise a mobile (Android and iOS) business strategy game employing resource management techniques to maximize profits by identifying consumer patterns in **C#** on **Unity3D**

## PUBLICATIONS

### Distracted Driver Detection and Classification

**ISSN: 2248-9622**

International Journal of Engineering Research and Application, Vol. 8, Issue4 (Part -III) April 2018, pp60-64

## LEADERSHIP AND INVOLVEMENT

Won Hackathon hosted for Samsung R&D Summer Interns from all over India

**May 2017**

Won second prize in Android application Hackathon held in the VJTI college fest

**Dec 2017**

**VJTI Alumni Association** | Chief Marketing Officer

**May 2017–May 2018**

- Headed team of 20 students to plan timelines, coordinating with the faculty and ensured successful staging of events

**VJTI Startup Networking Conference** | Marketing Head

**Jun 2017–May 2018**

- Spearheaded the marketing of conference providing a platform to students to pitch startup ideas to Venture Capitalists