

DIVYANSHI SHARMA

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EDUCATION

Master of Science in Computer Science

2020

University of Southern California, Viterbi School of Engineering

GPA: 3.60/4.00

Bachelor of Science in Computer Science and Engineering

2017

Jaypee University of Engineering and Technology

GPA: 8.90/10.00

WORK EXPERIENCE

Kaspect Labs LLC

May 2019 - Present

Research Intern

Los Angeles, CA

- Developing a prototype for a gamified Virtual Reality device quantifying upper extremity range-of-motion and neuromuscular coordination in the paediatric outpatient setting.
- Programming a reliable and fault-tolerant connection between the Patient and Proctor Unity instances using ZeroMQ and Python.
- Designing an in-game Principal Component Analysis (PCA) on the Patient's motion, leveraging the results to create new patient appropriate tasks.

Freelicious

June 2019 - Present

Frontend Developer

Los Angeles, CA

- Heading the Frontend Mobile Development Team, assigning weekly tasks, and coordinating with the Backend Team for integration.
- Collecting and translating design team's UX wireframes and mock-ups into responsive, interactive features into a hybrid mobile application, using Angular with Ionic, HTML5, CSS3, and JavaScript.

Wipro Technologies Ltd.

October 2017 - July 2018

Project Engineer

Hyderabad, India

- Programmed and enhanced the front end of a hybrid mobile application tracking requests submitted for collection of assets and provided a real-time dashboard to monitor progress and display statistics using Ionic, Angular and Bootstrap.
- Delivered UI fixes and debugged the source code in a ticket managing application developed using .NET and AngularJS.

PROJECTS

- **Yelp Rating Predictor (Foundations and Applications of Data Mining)** – Predicted yelp review ratings using an ensemble of collaborative filtering techniques, reducing the RMSE from 1.18 to 0.99. *Python, Apache Spark, scikit-surprise.*
- **Part of Speech Tagger (Applied Natural Language Processing)** – Implemented a Part-of-Speech tagger from scratch using Hidden Markov Models (HMM) and the Viterbi Algorithm to achieved an F1 score of over 96%, using Italian and Japanese datasets. *Python.*

SKILLS

Programming	C++, Python, SQL, C#, HTML5, CSS3, JavaScript, Java
Frameworks/Libraries	Angular, STL, Ionic, Django, .NET, numpy, scikit-learn, ZeroMQ, NetMQ, pandas
Databases	MySQL, Oracle, SQL Server, PostGIS
Tools	Git, Unity3D, Azure

LEADERSHIP & AWARDS

- Viterbi Career Ambassador. *Viterbi Career Connections.* January 2019 - May 2020
- Best "Hack for Good". *AthenaHacks, University of Southern California.* April 2019