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*