Divyanshi Sharma

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Education

Master of Science in Computer Science *May 2020*
Viterbi School of Engineering, University of Southern California, United States GPA: 3.61/4.00

Bachelor of Science and Technology in Computer Science and Engineering *May 2017*
Jaypee University of Engineering and Technology, India GPA: 8.90/10.00

Skills

Programming	Python, JavaScript, C#, SQL, C++, Java
Frameworks/Libraries	ASP.NET, Angular, Flask, Ionic, ZeroMQ, numpy
Databases	SQL Server, MySQL, Oracle, PostGIS
Tools	Git, Unity3D, Azure DevOps

Work Experience

Ideal Concepts, Inc. *Aug 2020 - Present*
Jr. Software Engineer Allentown, PA

- Analyzing user requirements and designing new features to improve user experience by building interactive GUIs.
- Refining stored procedures and APIs to increase security and efficiency of database calls, and maintaining existing features.

Tools: C#, ASP.NET, Angular, JavaScript, JQuery, SQL Server

Kaspect Labs *May 2019 - Jul 2020*
Research Intern Los Angeles, CA

- Served as intern team lead in developing a prototype for a gamified Virtual Reality device quantifying upper extremity range-of-motion and neuromuscular coordination in the paediatric outpatient setting.
- Programmed a real-time bi-directional ZeroMQ messaging framework with an in-game Principal Component Analysis on the Patient's motion that led to the company submitting a multi-institutional grant to the Canadian Institute for Health Research.

Tools: Python, Flask, REST APIs, Azure, Unity3D, C#, JavaScript, ZeroMQ

Wipro Technologies Ltd. *Oct 2017 - Jul 2018*
Project Engineer Hyderabad, India

- Programmed and enhanced the frontend of a hybrid mobile application and maintained the system by delivering UI fixes and correcting software defects.

Tools: Angular, Ionic, Bootstrap

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.***
- **Catch of the Day**–Rendered and deployed a real-time seafood market app using dynamic website components. ***React, Firebase.***
- **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.***

Leadership & Awards

- Viterbi Career Ambassador, Viterbi Career Connections. *Jan 2019 - May 2020.*
- Course Producer, CSCI 544 Applied NLP, USC Viterbi School of Engineering. *Jan-May 2020.*
- Best "Hack for Good", AthenaHacks, University of Southern California. *Apr 2019.*