

Divyanshi Sharma

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Education

Master of Science in Computer Science <i>University of Southern California, Viterbi School of Engineering</i>	2020 GPA: 3.60/4.00
Bachelor of Science in Computer Science and Engineering <i>Jaypee University of Engineering and Technology</i>	2017 GPA: 8.90/10.00

Skills

Programming	C++, Python, SQL, C#, JavaScript, Java
Frameworks/Libraries	Flask, Angular, Ionic, ZeroMQ, Apache Spark, Django, numpy, scikit-learn
Databases	MySQL, Oracle, SQL Server, PostGIS
Tools	Git, Unity3D, Azure

Work Experience

Kaspect Labs <i>Research Intern</i>	May 2019 - Present Los Angeles, CA
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- Served as team lead with two masters-level developers 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 reliable and fault-tolerant real-time bidirectional connection between Unity and JavaScript via a RESTful API.
- Designed an in-game Principal Component Analysis (PCA) on the Patient's motion, leveraging the results to create new patient-appropriate tasks.

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

Freelicious <i>Frontend Developer</i>	Jun 2019 - Present Los Angeles, CA
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- 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. <i>Project Engineer</i>	Oct 2017 - Jul 2018 Hyderabad, India
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- Programmed and enhanced the frontend of a hybrid mobile application tracking requests submitted for collection of assets and provided a real-time dashboard to monitor progress and display statistics.
- Delivered UI fixes and debugged the source code in a ticket managing application developed using .NET and AngularJS.

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.*
- 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.*