

# CHETAN CHAKU

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## EDUCATION

<b>University of Southern California, Viterbi School of Engineering</b>	Los Angeles, CA
<b>Master of Science in Computer Science</b>	December 2023
Relevant Coursework: Artificial Intelligence, Analysis of Algorithms	GPA: 4.0
<b>University of Pune, Pune Institute of Computer Technology</b>	Maharashtra, India
<b>Bachelor of Engineering in Information Technology</b>	June 2019
Relevant Coursework: Data Structures, Machine Learning, Data Science & Big Data Analytics, Web Development	GPA: 3.8

## SKILLS AND INTERESTS

- Technical: Python, .NET/C#, Flask, MS SQL, Oracle, Angular, C++, Java, JavaScript, Django, Docker, Git, AWS, WordPress
- Interests: Machine Learning, Data Science, Computer Vision, Augmented Reality

## EXPERIENCE

<b>USC Information Sciences Institute - Student Research Worker</b> , Los Angeles, CA	January 2018-Present
<ul style="list-style-type: none"><li>• Work under the Visual Intelligence and Multimedia Analytics Laboratory on developing an end-to-end system funded by DARPA and the Department of Health and Human Services for assessing the integrity of scientific publications.</li><li>• Research work on deep learning algorithms for identifying digital, physical, and semantic image and video manipulations.</li><li>• Responsible for development and management of docker enabled application built on Angular, Mongo DB, Milvus and Flask.</li></ul>	
<b>Credit Suisse - Software Development Engineer</b> , Pune, India	July 2019-December 2021
<ul style="list-style-type: none"><li>• Led development and planning of a new product in Client Data Analytics Dept, working on inculcating intelligent recommendations for dynamic call list generation for 100+ sales employees to improve trade success rate using Data Analytics, PySpark, Oracle and Salesforce. Responsible for agile development and project planning along with managers of 3 other teams involved.</li><li>• Spearheaded requirement deliberations, coordinating with Business Analysts to ensure development team and clients are in sync.</li><li>• Managed a dashboard web application in Client Analytics Department, handling requirement changes for creation of APIs and frontend utilizing .NET 4.5 Framework/ C# and JavaScript deployed on Azure Cloud to fulfill client needs across 5 business areas.</li><li>• Felicitated with the Spartan award for exceptional contribution and collaboration with Wealth Management Department on migrating inhouse applications from Angular 2 to Angular 8 improving usability and performance.</li><li>• Developed new application features and views via PrimeNG and Material frontend libraries for Angular giving better usability.</li><li>• Created REST APIs on Java SpringBoot, operating on MS SQL data for consumption on new features for effective application use.</li></ul>	
<b>Dassault Systèmes - Machine Learning Intern</b> , Pune, India	January 2018-September 2018
<ul style="list-style-type: none"><li>• Oversaw a team of 3 to design a web-based AI assisted learning platform offering course recommendations, optimized fuzzy search and natural language chat bot assistance.</li><li>• Design &amp; Implement recommendation system module leveraging cosine similarity, user profile matching and collaborative filtering.</li><li>• Programmed frontend website using WordPress for integration and showcase of developed modules employing Flask/Python.</li></ul>	

## ACADEMIC PROJECTS

<b>Safe-Pass</b>	Masters in CS Spring, 2022
<ul style="list-style-type: none"><li>• Conceptualized Safe-Pass at G.R.I.D.S Hackathon 2022 at USC as a novel street navigation application enabling us to find safest path using multi-criteria parameters of crimes happening in locality.</li><li>• Supervised team of 4 to utilize actual LAPD data, Machine Learning, Clustering, Flask, JS and Open Route Service Geolocation, Distance Matrix APIs to focus on practical implementation of finding the safest path for everyday commuters.</li></ul>	
<b>Textual Description to Image Generation using GANs</b>	Under graduation 8 <sup>th</sup> Semester, 2019
<ul style="list-style-type: none"><li>• Constructed an architecture with PyTorch allowing two convolutional neural networks to be used in an adversarial approach for generating high-resolution images based on a textual description provided as input.</li><li>• Hosted project on AWS cloud as a progressive web app with mobile compatibility &amp; used flask for easy interface with ML model.</li></ul>	

## PUBLICATIONS

<b>International IEEE Conference Paper</b>	March 2019
<u>A Computational Evaluation of Distributed Machine Learning Algorithms</u>	

## LEADERSHIP AND INVOLVEMENT

<b>Technology Assistants at Credit Suisse - Senior Member</b> , Pune, India	July 2019-December 2022
<ul style="list-style-type: none"><li>• Fostered a culture of financial literacy in new joiners in organization by organizing more than 6 events including online quizzes and speaker series over a period of two years.</li><li>• Mentored 3-5 small groups of freshers for creating innovative solutions to real problems faced by organization during 2 hackathons.</li></ul>	
<b>Just For Kicks – Volunteer</b> , Pune, India	January 2020-December 2020
<ul style="list-style-type: none"><li>• Cooperated with NGOs to renovate local schools and teach 100+ students life skills and leadership qualities through soccer.</li></ul>	