

Varun Venna

Cary, NC | 973-517-0645 | vvenna@g.ucla.edu | github.com/varunv22 | linkedin.com/in/varun-venna

SUMMARY

Passionate computer science student experienced in data structures and algorithms with a strong understanding of software engineering principles. Pursuing an internship to apply and elevate software engineering skills. Proven ability to excel both independently and as part of a team.

EDUCATION

UCLA

Bachelor of Engineering

Major in Computer Science; Minor in Data Science; Graduation year: 2025

Relevant Coursework: Computer Organization, Data Structures and Algorithms, Software Construction Laboratory,

Design of Digital Systems, Operating Systems

PROJECTS

Slide

- Created a dynamic web app using the MERN stack (MongoDB, Express.js, React, Node.js), libraries such as Chakra UI and React Native, and Git for version control.
- Implemented features such as user authentication, event creation, user matching, and a leaderboard via API calls, fetch calls, and controller functions
- Employed bcrypt for enhanced security, salting passwords with extra bytes to deter hackers and hashing them before database storage.

Netphlix

- Designed and implemented movie recommendation system utilizing a database with over 100,000 titles and users' watch history
- Created sophisticated and time efficient algorithms in order to be able to quickly analyze user watch history and recommend movies, resulting in a 35% increase in speed
- Used a diverse range of data structures and efficient algorithms, such as trees, hash tables, bubble sort, and merge sort, to significantly enhance the efficiency of the recommendation system

Password Encryption System

- Used relevant python libraries and modules in order to ensure secure encryption and decryption of usernames and passwords
- Implemented various cryptographic algorithms such as AES, RSA, and SHA to safeguard sensitive data and enhance security
- Built a data transmission system to securely transmit encrypted information, ensuring data integrity and confidentiality

WORK EXPERIENCE

AVOLTA (SWE Internship)

October 2023 – Present

- Established and maintained routing framework with Flask and SQL for a mobile vehicle monitoring app while enhancing security with a bcrypt hashing function and parametrized queries.
- Collaborated in a small team to develop password reset functionality and security.

ASUCLA (Customer Service Representative)

January 2023 – September 2023

- Demonstrated exceptional customer service, resulting in a 20% increase in customer loyalty
- Organized and maintained merchandise displays, contributing to a 10% boost in product sales

ACTIVITIES

ACM AI(Advanced Track)

Nov 2022 – Present

- Active member of ACM AI, attending every meeting and further increasing knowledge of AI
- Helping a research team give machines the gift of sight via ML and AI

Bruin Hindus(Board Member)

Sep 2022 – Present

- Avid volunteer and board member of Bruin Hindus. Helped many activities take place such as Bruin Bhangra, Diwali celebrations, and Holi celebrations in various locations around LA.

ADDITIONAL

Technical Skills: Advanced in Python, C/C++, Java; Proficient in MATLAB, HTML and SQL

Soft Skills: People skills, Time management, Fast learner, Leadership experience, Critical thinking, Flexible, Multitasker

Languages: Fluent in English; Conversational Proficiency in Telugu, Spanish

Certifications: Certified in Lean Six Sigma, Microsoft Excel, Microsoft Word, PowerPoint, 3rd Level Black Belt, Certified Sensei