

Varun Venna

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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; 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 (C++)

- 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 (Python)

- 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 functionality and security for password change/reset, data accesses, login, register user, etc.

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: C/C++, CSS, HTML, Java, JavaScript, Lisp, MATLAB, Python, React, 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