

Chinmay Patel

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EDUCATION

Bachelor of Science, Computer Science

Aug 2023 - June 2027

San Diego State University (San Diego, California)

- **Relevant Coursework:** Data Structure and Algorithms, Object Oriented Programming, Software Design, Computer Architecture, Operating Systems, Machine Learning, Calculus 2, Linear Algebra, Discrete Mathematics, Probability and Statistics, Economics.

SKILLS/SOFTWARE

- Languages & Frameworks: C, C++, Python, Java, SQL, MongoDB, PostgreSQL, HTML, Tailwind CSS, JavaScript, NodeJS, ExpressJS, ReactJS, NextJS, AuthJS, Vite, Kubernetes, Docker.
- Software & Clouds: Visual Studio Code, GitHub, XCode, Linux, IntelliJ IDEA, PyCharm, ServiceNow, JAMF Cloud, Postman, Vim.

WORK EXPERIENCE

Chakra Tech, Software Engineer Intern

June 2024 – Aug 2024

- Developed user-friendly React front-end interfaces, streamlining data entry processes and reducing input time by 30% for medical records including blood group, DNA sequences, genetic profiles, and patient histories.
- Refined back-end integration in Golang, achieving a 40% performance increase while ensuring compliance with medical data regulations.
- Implemented PostgreSQL databases, improving data retrieval speed by 40% and securely managing critical information for over 5,000 patients.

Aspiration Institute, Teaching Assistant

Jan 2023 – Jul 2023

- Implemented interactive sessions on C, C++, Python, Java, and JavaScript, resulting in a 90% student satisfaction score.
- Developed and delivered 15 instructional materials that enhanced student engagement, resulting in a 20% increase in overall assessment scores.
- Redesigned curriculum for 150+ students, increasing engagement by 20% through tailored teaching methods for diverse learning styles.

SOFTWARE PROJECTS

Automated User Creation System

Feb 2024 – June 2024

- Implemented Python script with REST API to efficiently create 500 Desk Assistant users each year, saving 20 hours of labor monthly for Housing Administration.
- Established error handling and logging mechanisms, achieving a 50% reduction in issues and improving user creation process reliability.
- Reduced manual workload by 30% through the design, testing, and deployment of a streamlined IT solution with project partners.

House Price Prediction

Oct 2023 – Nov 2023

- Developed a House Price Prediction model using Python-based Machine Learning algorithms, increasing prediction accuracy by 25%. Analyzed extensive datasets to identify key predictors and took insights from square footage and bathrooms.
- Integrated a full-stack solution using Python and PostgreSQL, enhancing algorithm efficiency by 30% and user engagement by 20%.
- Created an intuitive user interface, enhancing interaction with the predictive model, resulting in a 30% increase in user engagement. Led testing, validation, and collaborated cross-functionally to optimize the House Price Prediction system for accuracy and efficiency.

EXTRACURRICULARS

Member, AI Club | San Diego State University

Aug 2023 – Present

- Actively engaged with AI Club guest speaker events to cultivate a robust professional network and actively develop my technical skills by absorbing insights and expertise shared by accomplished industry professionals.

Member, Finance and Investment Society | San Diego State University

Sept 2023 – Present

- Participated in financial market analysis, investment strategies, and networking events to develop a deeper understanding of finance and investment.