Tanmay Hinge

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EDUCATION

California State University, Chico   Chico, CA
Masters, Computer Science   graduated May 2024
GPA- 3.34

University of Mumbai (Pillai College of Engineering)   Panvel, MH, India
B.E. Computer Engineering   graduated May 2022

WORK EXPERIENCE

Inver Hills Community College   Inver Grove Heights, MN
Instructor, Computer Science Department   August 2025 - Present
- Developed and instructed a cohesive curriculum for core computer science courses - Datastructures and Algorithms, Computer Architecture, Machine Learning, Natural Language Processing, Introduction to Computer Science, C++, Python, and Java - with emphasis on good design, object oriented programming and tech-interview preparation.
- Designed and launched an Applied AI Certificate Program, creating courses in Machine Learning Essentials, Natural Language Processing, and Foundations of AI.
- Pioneered an AI-driven RAG-based chatbot to make institutional information more accessible to students and faculty.
- Introduced a research paper writing module in introductory classes to cultivate foundational research and technical communication skills.
- Collaborated with academic leadership to streamline transfer pathways for community college students to the University of Minnesota, University of Iowa, and other four-year institutions across the country.
- Mentored over 100 students through individualized academic and professional guidance, fostering programming and analytical proficiency.

California State University, Chico   Chico, CA
Lab Assistant & Tutor, Computer Science Department   August 2023 - May 2024
- Served as a Computer Science Tutor in the Department of Computer Science at California State University, Chico, providing academic support in C++, object-oriented programming, algorithms, data structures, web development, and computer security.
- Facilitated conceptual understanding and problem-solving skills for diverse student groups through one-on-one and group sessions.
- Additionally, assisted Dr. Abbas Attarwala as a Lab Assistant for CSCI 211 (Programming and Algorithms II) and CSCI 311 (Algorithms and Data Structures), supporting lab instruction, and implementation guidance for complex algorithmic assignments.

VettX Inc.   Chico, CA
Software Developer Intern   May 2023 - July 2023
- Designed and developed "VettX University," a client onboarding platform built with React.js and Vidyard API, incorporating instructional design principles to create structured video-based learning modules, interactive walkthroughs, and assessment checkpoints - resulting in significantly faster onboarding for new automotive dealership clients.
- Created a chrome extension that helped clients streamline communication with their customer base on facebook marketplace and craigslist.
- Integrated AI-based natural language processing to automate client communication workflows, improving efficiency by 40%.
- Worked with a team on client-facing SDK integration and tested edge deployments for scalability.
- Recommendation Letter

Pillai College of Engineering   Panvel, MH, India
Curriculum Developer and Instructor   April 2021 - April 2022
- Conducted a C++ and Competitive Programming Workshop for a group of 40 students in April 2022 which resulted in increasing the student placement in software companies by 30%. Click to Read More about the workshop.
- Instructed an online workshop on Game Development and OOP for a group of 20 students in April 2021. Two projects were developed using the Unity Game Engine and prepared for release. Click to Read more about the workshop.

CampK12   Mumbai, MH, India
Curriculum Developer and Instructor   January 2019 - August 2019
- Conducted multiple workshops on Web Development, App Development etc. over the course of 8 months.
- Conducted a remote workshop on App Development for a group based in Los Angeles, CA, USA where basic mobile applications were created.
- Created custom curriculums for students as well as submitted weekly reports to supervisors regarding the workshop activities.

ACADEMIC SERVICE

ERP Research Workgroup   2024 - present
Participated in the research workgroup led by Dr. Sam Siewert at California State University, Chico. Got the opportunity to interact and learn from various PhD candidates studying at institutes such as Colorado University, Bolder, University of Notre Dame, UC Davis. The research was focused on the use of seismic sensors and computer vision to detect movement of animals as well as large herds.

Engineering and Computer Science Club   2024 - present
Mentored interested students on various engineering and computer science projects - rocket team, quad car, AR sandbox, PC building, various web projects.

Z-Degree Program Committee (Zero Cost Degree) 2025 - present
Optimized CS programs to better aid student needs by implementing zero cost materials and made use of open source resources for students. Participated in the review of Z-degree programs and mentored other faculty in converting their courses to fit within the Z-degree.

Accessibility Committee 2025 - present
Participated in the workgroup responsible for making college resources and materials more accessible to best suit the needs of a wider collection of students.

PROJECTS

Honeyscript, a minimal programming language April 2021
- Honeyscript is a lightweight, JavaScript-inspired experimental programming language designed for research and academic exploration.
- Built to study language design, syntax minimalism, and functional expressiveness in small-scale interpreters.
- Supports core arithmetic operations with emphasis on clarity and computational traceability.
- Includes a concise output mechanism for deterministic evaluation and result observation.
- Integrates lambda (anonymous) functions, enabling experimentation with functional programming paradigms.
- Implements a minimal runtime and parser, allowing researchers to easily extend or modify core behaviors.
- Ideal for teaching compiler construction, syntax parsing, and interpreter design in computer science education.
- Encourages rapid prototyping of new language semantics or operator behaviors.
- Provides a sandboxed execution model, useful for studying security, isolation, and metaprogramming concepts.
- Designed to be readable, extensible, and embeddable within JavaScript environments for hybrid computation experiments.

GitHub Repo - https://github.com/tanmayhinge/honey-script
Website - https://tanmayhinge.com/honey-script/

XCRYPT, a decentralized password manager May 2025
- Developed XCRYPT, a decentralized, client-side encrypted password manager available on web and mobile platforms.
- Utilized Google Sheets as a decentralized storage layer, enabling users to own and control their encrypted data.
- Implemented AES-256-based encryption with key derivation to ensure data security and resistance to brute-force attacks.
- Designed and tested cross-platform synchronization and local caching mechanisms for seamless usability.
- Focused on security research, analyzing performance, usability, and cryptographic strength in decentralized password management.

- Conducted comparative evaluations of encryption efficiency and brute-force resistance under different key derivation settings.
- Built with an emphasis on privacy, transparency, and minimal reliance on centralized servers.

GitHub Repo - https://github.com/tanmayhinge-zz/XCRYPT

react-tailwind-template   December 2020
- Authored react-tailwind-template, a React + Tailwind CSS starter repository designed for rapid front-end scaffolding.
- Published companion NPM package, enabling one-step installation and boilerplate setup for new projects.
- Preconfigured CRACO & PostCSS 8 compatibility, facilitating seamless Tailwind integration with Create React App.
- Streamlined dev workflow via single-command install and start with a clean project architecture.
- Documented design and best-practice guidelines, reducing setup friction for other developers.
- Community adoption (≈36 stars, 8 forks) reflects value as a reusable template and package.

GitHub Repo - https://github.com/tanmayhinge-zz/react-tailwind-template

PROFESSIONAL AFFILIATIONS

Minnesota State College Faculty, Member	2024 - present
Codechef, Student Mentor	2020 - 2022
Computer Society of India, Technical Staff Member	2019 - 2022

REFERENCES

3 references with the following information:

First name Last name
University or Company
Job Title, Department if applicable
Relationship (e.g. advisor, supervisor)
Mailing Address
City, ST xxxxx
(xxx) xxx-xxxx
email address