

Tirth Shah

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EDUCATION

•Master of Science in Computer Science

California State University, Chico, CA

3.4/4

Aug 2024 - May 2026

•Bachelor of Engineering in Electronics and Telecommunication

AISSMS Institute of Information Technology, Pune, IN

CGPA: 3.7/4

Aug 2018 - May 2022

EXPERIENCE

•Chico State University – SAP UCC Project

Team Lead / Full-Stack Engineer Intern

May 2025 – Present

Chico, CA

- Leading development of SAP-UCC portal used by 10K+ users across 30+ institutions; defined system architecture and introduced mono-repo with Node.js, React-Redux, and Tailwind.
- Built 40+ REST APIs (300 endpoints) with <250ms latency; implemented RBAC, JWT auth, and cron jobs to automate cleanup of 100K+ tokens/week.
- Integrated CI/CD (GitHub Actions, Jest), EJS-based email workflows, and Winston logging, boosting engagement by 25%, test coverage to 78%, and reducing debugging time by 60%.

•Onix Datametica Birds (Formerly Datametica Pvt Ltd)

Associate Member Of Technical Staff / Associate Engineer / Product Intern

October 2021 – July 2024

Pune, IN

- Led development of data migration tools for the Raven suite, adding support for 3+ platforms (DataStage, Informatica, Alteryx), improving tool compatibility coverage by 60%.
- Built advanced data generator tools in Groovy/Scala, generating 1M+ synthetic records and accelerating test cycles, cutting 30 hours/month in manual QA.
- Supported CI/CD pipelines and Agile delivery across 5+ product teams; improved deployment frequency by 25% and reduced rollback incidents.
- Developed Raven UI with Spring Boot, PostgreSQL, and React, enabling zero-downtime migrations and automating email alerts, cutting stakeholder update latency by 80%.

•SOIL - School of Innovation and Leadership

AI/ML Intern

Remote

July 2021 - Sept 2021

- Developed a book recommendation system for the 'Ask Anjee' AI solution using BERT, sentence transformers, and NLP techniques with spaCy and NLTK to provide personalized educational support for underprivileged children.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Java, Kotlin, Groovy, Scala, Javascript, HTML+CSS, Typescript, XML, MYSQL, C#

Libraries : C++ STL, Tensorflow, Numpy, Pandas, JPA, Scikit learn, Pytorch

Web Dev Tools: Nodejs, VScode, Git, Github, Gitlab, IntelliJ Idea, Docker, Kubernetes, Rest APIs, Postman

Frameworks: Springboot, Nodejs, Nuxtjs, Reactjs, Vuejs, Lombok, .NET

Cloud/Databases: Relational Database(mysql), BigQuery, Teradata, Oracle, MongoDB, GoogleCloud, AWS

PERSONAL PROJECTS

–MockMouse

Demo Video (YouTube)

- * Built an AI-driven browser testing agent that converts natural language to intelligent flows, no scripts or selectors.
- * Integrated Claude Sonnet 4 via Anthropic API; achieved Top 9 overall and Top 3 in Dev Tools at Cal Hacks 2025 at UC Berkeley (1400+ participants 350+ teams).
- * Stack: Next.js, Express.js, TypeScript, WebSocket, Prisma, Supabase, Flask, Claude Sonnet 4.

–PagePal

Devpost Project Page

- * Created an AI-powered chat interface to interact with book content using a RAG pipeline powered by ChatGPT API.
- * Built with React + TypeScript frontend and Flask + MongoDB Atlas backend, enabling smart querying of uploaded books.
- * Stack: React, TypeScript, Flask, MongoDB Atlas, ChatGPT API. (SF Hacks 2025)

–BalanciFi

GitHub Repository

- * Developed a personal finance app to track expenses, budgets, and savings with real-time cross-platform sync.
- * Used Flutter and Firebase Firestore for responsive UI and backendless cloud storage with authentication.
- * Stack: Flutter, Dart, Firebase Firestore.

AWARDS AND PUBLICATIONS

–Rising Star Award Datametica Birds

June 2023

–Sardey, M.P., Shah, Tirth., Joshi, P. and Shah, K., VIBERSHIELD: An Intrusion Detection System.

Jan 2023

–IEEE Trident 4.0 Winner - Pune

Sept 2019