

# TANUSH CHOPRA

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## EDUCATION

**Bachelors of Computer Science**, Georgia Institute of Technology

Expected Graduation Date: **May 2025**

*Cumulative GPA: 4.0/4.0*

**Relevant Coursework:** *Linear Algebra, Discrete Math, Data Structures and Algorithms, Algorithm Honors, Knowledge-Based AI, Natural Language Processing [NLP], Machine Learning, Computer Vision [CV], Deep Learning, Automata and Complexity*

## SKILLS

<b>Languages</b>	Rust, Go, Python, Java, JavaScript, SQL, GraphQL, C++
<b>Data Technology</b>	PostgreSQL, SQLite, RocksDB, AWS, GCP, Firebase, Selenium
<b>Frameworks</b>	Flask, FastAPI, TensorFlow, PyTorch, SKLearn, OpenCV, Kafka
<b>Development Tools</b>	Git, Figma, VSCode, Eclipse, Kubernetes, Postman, Insomnia

## EXPERIENCE

**Full Stack Engineering Intern**, DocuSign Inc.

*San Francisco, CA* • May 2023 - August 2023

- Developed an internal tool with real-time search capabilities, enabling IT professionals to address employee queries promptly.
- Integrated advanced criteria setup for DocuSign app administrators ensuring seamless employee management.
- Leveraged **Django** and **Vue** on **AWS** infrastructure. Incorporated **Okta** for robust security, and achieved a significant boost in **SQL Server** query performance (~6x speed up).
- Elevated user security through the introduction of **Identity and Access Management (IAM)** principles.
- Achieved a remarkable decrease in Mean Time To Resolve from ~29 hours to ~3 hours (~10x improvement).
- Received positive feedback after demoing to VP of Global IT and CIO of DocuSign.

**Chief Executive Officer**, Locab Inc.

*Remote* • May 2021 - March 2022

- Led a cross-functional team of 8 in developing an **NLP**-driven extension to offer AI-generated writing insights.
- Integrated state-of-the-art models like **Attention-based Transformers** and Google's **PEGASUS** for precision feedback.
- Crafted a responsive **Flask** backend, implemented NLP model training and achieved a 100x boost in server performance.
- Managed workflow through agile methodologies, utilizing **Trello Boards** and systematic reviews.
- Garnered interest from Uber's content strategy division.

**Researcher**, Teachable AI Lab

*Atlanta, GA* • August 2022 - Present

- Collaborated with Prof. MacLellan and graduate students on human-centric **AI/ML** models and **Cognitive AI** systems.
- Repurposed the **COBWEB** clustering system for enhanced **language modeling**, achieving a 25x performance uplift in the **Python** implementation.
- Delivered a high-performance **C++** variant of COBWEB, resulting in a ~100x speed improvement.
- Pioneered research in **Inverse Reinforcement Learning (IRL)** and **AI Planning** for human-like agent behavior.

**Software Engineering Intern**, Kinetic Reality Inc.

*Sunnyvale, CA* • June 2021 - October 2021

- Engineered an **iOS**-centric **AR** application using **Swift** to capture and relay **LiDAR**-derived body movement insights.
- Aimed to elevate athletic performance through data-driven feedback, comparing real vs. simulated motion.
- Contributed to beta testing activities in preparation for a significant funding round.

## PROJECTS

**Quibble** Championed an **AI**-driven educational platform, furnishing students with quality resources through an adaptive **UI**. ([Project link](#))

**AnimeQ** Devised an **ML**-oriented algorithm via **PyTorch**, employing an **Attention-based CNN Sparse-VAE** to assess manga-to-anime adaptation viability.

**Ludis** Orchestrated the development of a sports-centric social platform, leveraging **Flask**, **Python**, and **PostgreSQL**, to connect users around shared athletic interests.

**IFF** Crafted an **NLP**-infused browser extension using technologies like **Python**, **Flask**, and **TensorFlow** to discern political biases in news, achieving 83.4% accuracy. Hosted on **Google Cloud Platform** and acclaimed with a top rating on the Google Web Store. Ongoing enhancements focus on ML capabilities and user-centric displays.

**ClassNet** Conceived a cutting-edge **Computer Vision** model using **TensorFlow** and a tree of **CNN** classifiers. The model not only minimized computational strain but also secured a staggering 98.7% accuracy on the Mini ImageNet dataset.

## ACCOMPLISHMENTS

### Hackathons

*Won 2 hackathons: HackItShipIt and DataDayGrind. Participated in 9 hackathons to date.*

### Alameda County Science and Engineering Fair

*Won 2nd place in the Math and Computer Science Category. Performed Longitudinal Study on Political Bias in News-based Media.*