

# Impana Chimmalagi

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## EDUCATION

### University of California, Los Angeles

B.S. in Computer Science, Applied Mathematics Double Major (GPA: 3.77)

Los Angeles, CA

Sep. 2022 – Jun. 2026

- **Relevant Coursework:** Data Structures & Algorithms, Software Construction, Machine Learning, Data Science, Advanced Neural Networks & Deep Learning, Operating Systems, Probability & Statistics, Linear Algebra
- **Achievements/Programs:** Dean's Honors, Women in Engineering @ UCLA's Leadership Academy, Two Sigma New Seekers Summit, UChicago Trading Competition Participant 2024
- **Organizations:** hackNY Fellow '25, Society of Women Engineers Dev Lead, Rewriting the Code

## EXPERIENCE

### Software Engineer Intern, Data Engineering Team

American Express

Jun 2025 – Aug 2025

New York City, NY

- Built a secure detokenization API using **Java Spring Boot** to retrieve 5 types of cardmember PII for ~145M users from **GCP Bigtable**, enabling downstream access to integrate marketing offers analytics from external partners.
- Achieved 98% unit test coverage using JUnit and Mockito, implemented centralized exception handling, and integrated **Idaas** for secure, role-based API access to improve reliability and protect sensitive PII in production.
- Deployed the API to **Kubernetes** via internal CI/CD pipelines, integrating OpenTelemetry and LoggerFactory for real-time monitoring and end-to-end traceability, accelerating debugging across distributed services.

### Full-stack Engineer and Data Engineer Intern

WE Global Studios

Apr 2025 – Jun 2025

Remote

- Engineered a collaborative comment feature using **React** with voting logic, role-based access, threaded replies, and persistent state management, increasing engagement across a platform supporting 300+ paying members.
- Automated performance reporting with interactive data visualizations and score formatting tools using **Python** and NetworkX; integrated Hivebrite APIs to streamline user management, reducing manual admin effort by 60%.

### Full-stack Developer Intern

The Postcard App

Aug 2024 – Oct 2024

Remote

- Implemented and designed in-app messaging for sharing digital postcards using **Flutter**, increasing engagement for 250+ active users; honed the app for pitch competitions and accelerator interviews.
- Developed user communication backend features with **Firebase** for phone number linking and contacts integration.

### Data Science Intern

Saguaro Capital Management, LLC.

Jun 2024 – Aug 2024

Phoenix, AZ

- Trained & fine-tuned LLMs, including **BERT** and deBERTa, for comprehensive intrinsic financial analysis across 100+ public companies, resulting in a 12% improvement in classification accuracy for key equity research tasks.
- Implemented model quantization to reduce LLM size by 40%, benchmarked 8 baseline models, and integrated ~150 meeting audios via speech-to-text pipelines to power a firm-wide research chatbot, saving analysts 3+ mins/query.
- Contributed to open-source financial NLP tools, including a gold commodity sentiment dataset and fine-tuning tasks (NER, headline classification, financial sentiment analysis) for BERT24, improving task coverage in finance research.

## PROJECTS

### FactChecker

Spring 2025

- Built a **React** Chrome extension that fact-checks highlighted text in real-time using curated news sources, presenting automatically generated conclusions, article summaries, confidence scores, and quotes in a side panel.
- Integrated a natural language pipeline leveraging RoBERTa-large-MNLI for zero-shot stance detection and FLAN-T5 to extract supporting article quotes in order to generate automated analysis of news sentiment and bias.

### caFFIEND

Winter 2024

- Yelp-inspired coffee shop ratings & recommendations website built with the **MERN** stack and **REST API** endpoints.

### Mentorship Matching & Evening With Industry Table Sorting Algorithms

Spring 2024 – Summer 2024

- Developed Gale-Shapely stable matching algorithms in **Python** for student-to-new admit mentorship and company representative-to-student matching for SWE@UCLA, serving ~40 companies and 300+ students.

## TECHNICAL SKILLS

**Languages & Libraries:** Python, C++, Java, SQL, NumPy, Pandas, PyTorch, scikit-learn, TensorFlow

**Web & Frameworks:** React, JavaScript, HTML, NodeJS, Firebase, MongoDB, Flutter, Spring Boot, Flask

**Cloud & Tools:** GCP, AWS, Git/Github/Gitlab, Kubernetes, Anaconda, Rally & Jira, Excel, Figma, L<sup>A</sup>T<sub>E</sub>X