Tia Jain

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EDUCATION

Bachelor's in Computer Science from the University of California, Berkeley   *Graduated: May 2025*
Relevant Coursework: Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Databases, Networking, Computer Architecture, Discrete Mathematics and Probability, Operating Systems, Computer Security, Computer Graphics
Skills: Python, Go, Java, C, React.js, JavaScript, HTML, CSS, SQL, C++
Involvements: Rewriting the Code, Break Through Tech, NCWIT, CodePath, AI4ALL, Society of Women Engineers

EXPERIENCE

Software Engineer, *Meta*   July 2025 - Present
- On the Modern Recommender Systems (MRS) AI Kernel Foundation Model (FM) Co-design Team

Product Engineering and Operations Intern (Spring 2025), *Instawork*   Jan 2025 - Present
- Built a multi-step certificate approval agent using GPT-4 Vision, AWS S3, and Cursor; automated 80% of manual forklift certificate reviews through document type detection, cert field extraction, and structured validation
- Built ProFinder, a full-stack web app that matches workers to job postings by role and location; prototyped in 3 days with Replit AI Agent, improving marketplace liquidity and delivering a 10x productivity boost for the Product team

Product Management & Software Engineering Contractor, *NVIDIA*   Aug 2024 - Dec 2024
- Working on the DGX Cloud Resource Governance team to improve the Navigator GPU allocation platform by leveraging Retool, JavaScript, and CSS to add features and resolve frontend issues reported by users
- Designing and overseeing the development of the new Cluster-as-a-Service (CLaaS) website, directing user journey flows, interface layout, backend database schema, and visual style to enhance functionality and user experience

Software Engineering Intern, *Salesforce*   May 2024 - Aug 2024
- Developed a web app to improve monitoring & reporting of Chaos experiments by 30% via running customizable SQL queries on Amazon RDS for PostgreSQL, using Go, JavaScript, HTML & CSS, with adherence to RESTful API principles
- Implemented numeric/date filtering, CSV export, IAM role-based authentication & configurable parameters in YAML
- Containerized the app with Docker and deployed it on Kubernetes, ensuring scalable, secure operation

AI/ML Fellow, *Relativity*   May 2024 - Dec 2024
- Evaluated [bias](#) in generative AI models impacting justice system data (text, photos, audio) using zero-shot/few-shot prompting with Gemini API for sentiment analysis and fairness metrics across nationality, disability, and age
- Developed templated datasets and applied classification metrics (precision, recall, F1) to identify systemic biases

Software Engineering Intern, *Susquehanna International Group, LLP*   June 2023 - Aug 2023
- Created a performant, memory-efficient browser for large Hierarchical Data Format (HDF5) and Study Dataset (SDS) files using PyQt, h5py, and riptable to equip quantitative researchers to analyze and browse market data 83% faster
- Developed a crypto trading algorithm for Bitcoin & Ethereum, utilizing technical analysis strategies (EMA, RSI)

Associate Software Developer, *Zendesk*   Feb 2023 - Dec 2023
- Renovated SLA ticketing system frontend with React.js & discussed design principles with Zendesk's UI/UX team
- Designed a robust backend infrastructure, leveraging Ruby on Rails-based API endpoints and prototyped models to detect & prevent 2000+/min traffic SLA violations, using SQL database schemas for storing notification & action data

Software Engineering Intern, *UnitedHealth Group*   June 2022 - Aug 2022
- Designed a centralized model registry (RESTful API) for logging data of all deployed AI/ML models, enhancing discoverability across teams, reducing rework by 20%, and cutting model deployment times by 15%
- Built a search by model name, owner, status & tags using Java, SpringBoot, Hasura, GraphQL, Angular & Storybook

COMPUTER SCIENCE PROJECTS

[AI4Sight iOS App](#) **(Swift)**
- Built a machine-learning iOS app with a voice-activated UI using Swift to assist the blind in recognizing surroundings for safer navigation, featuring image classification, text recognition & face detection (all with >96% accuracy)
- Led the full product lifecycle from ideation to deployment, integrating Google Cloud ML models & Firebase backend

PintOS Operating System (C):
- Replicated PintOS in C, including argument passing, syscalls, floating point handling & user process management
- Integrated strict priority scheduling, synchronization & a virtual file system interface, boosting efficiency & control

[Gitlet](#) **(Java)**
- Designed a version control system that replicated Git's core functionality, implementing branching, staging, merging, and committing file changes, even testing code with comprehensive integration and unit tests
- Leveraged various data structures, hashing, serialization, and OOP