CHIRAYU RAI

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Education

California State Polytechnic University - Pomona   **Expected Grad: May 2024**
Bachelors of Computer Science

Work Experience

Degirum, Santa Clara, CA   **June 2023 - August 2023**
Fullstack Web Development Intern
- Built a drag and drop no-code environment using React.js where users can select different options to run AI models based on their specific needs
- Created API endpoints using Flask, leveraging Celery tasks in order to run models on given user inputs
- Used Playwright to create verbose testing suite with over 40 tests, ensuring 90% test coverage for any new features
- Used Caddy as a reverse proxy in order to serve a docker container of built frontend for website

Clip Automation, Palo Alto, CA   **July 2021 - August 2021**
Backend Engineering Intern
- Created the core backend for Clip's live streaming platform enabling real-time monitoring of factory floors
- Used Flask in conjunction with Kafka and Nginx in order to create secure, web-accessible streams
- Optimized code for lower end hardware, increasing live stream FPS from 5 fps to 60 fps
- Development followed Agile and SCRUM workflows

Projects

Pennywise | *React Native, Flask, MySQL, OpenAPI, Plaid*
- Created a budget creator and expense tracker for Software Engineering Course
- Used Flask to create REST API that handles database management, as well as handling communication with plaid through webhooks for real time updates on user's expense data
- Created login, signup, expenses page and all associated flask routes + React Native componenets

Next NBA Champion | *Python, numpy, pandas*
- Using historical data pulled from basketball-reference.com, teams are ordered from most likely to least likely to win the upcoming NBA championship
- Data normalization done through BalancedRandomClassifier, boosting accuracy from 50% to 60%
- Noisy data cleaned using BalancedRandomClassifier feature_importances property, boosting accuracy from 60% to 76%

CPP NSU website and editor | *MERN stack, GraphQL, TailwindCSS*
- Created a club website with a built in editor for CPP's NSU
- Used Mongo NOSQL database in order to increase querying speed by 33% when compared to Postgresql
- Website editor allows for users that are authorized through JWT to perform CRUD operations on any data present on website

Leadership

Clubs: Executive Tech Lead for Nikkei Student Union
Awards: Cutie Hack Organizer's Pick, ITC Web Dev Second Place

Skills

Programming Languages: Python, Javascript, SQL, Java, HTML/CSS
Technologies/Libraries: Vim, React.js, Node.js, REST APIs, GraphQL, tailwindCSS, Docker
Tools: Linux, Git, Samba, SSH, FTP, AWS, MongoDB
Natural Languages: English, Chinese, Hindi (speaking, reading, writing)