Kairav Parekh

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EDUCATION

Stony Brook University — Stony Brook, NY
Bachelor of Science in Computer Science, GPA: 3.85 — *January 2022 – Present*

KSVSS School — Chennai, India
High School, GPA: 93.8% — *June 2017 – July 2021*

EXPERIENCE

Google Code-In — November 2019 – December 2019
Student Contributor, Fedora Project — *Remote*
- Developed a cross-platform wild-card guessing game using Pygame
- Used Pygame's rendering APIs to display images and texts with styled fonts
- Utilized Pygame's continuous mouse and keyboard APIs to record cursor position and keyboard input to make functioning buttons and text fields

PROJECTS

Smart Invest | *Java, Spring Boot, React, TypeScript, PostgreSQL, AWS EC2, Git*
- Full-stack web application to track stock investments using Spring Boot serving a REST API with React as the frontend
- Integrated the Twelvedata API to fetch stock ticker data based on user queries
- Stored user data on PostgreSQL, and hosted the application on AWS EC2

Algo-Trading Bot | *Python, scikit-learn, Matplotlib, Alpaca Trading API*
- Stock trading bot that utilizes machine learning algorithms to make decisions
- Made a regression-based model using NumPy and scikit-learn to find market trends
- The application executes orders and fetches historical data using the Alpaca Trading API
- Utilized WebSockets to read data from an Alpaca-provided live ticker data stream

Music Player | *Python, FastAPI, NextJS React, TypeScript*
- Web-based music player to stream audio files
- Used FastAPI to serve as a REST API with NextJS React as the frontend
- Designed and developed a responsive UI using React-Bootstrap

HopperHacks 2022 | *Python, FastAPI, React, TypeScript*
- Responsive web application to fetch historical stock data, latest news and company financials for any given stock ticker and display them in a single place
- Employed Yahoo Finance API to fetch historical data and NewsAPI to fetch latest news
- Made use of React-Bootstrap to make the UI responsive and Recharts to develop stock graphs

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, HTML/CSS
Frameworks: React, Node.js, FastAPI, Bootstrap, Spring Boot
Tools: Git, Linux, AWS EC2, PostgreSQL
Libraries: pandas, NumPy, Matplotlib, scikit-learn

AWARDS

Silver | *USA Computing Olympiad* — December 2020
- Solved challenging online algorithmic programming problems and qualified to the Silver division

Winner | *Game Development, DEWS 2K18, Sindhi Model School* — November 2019
- Made a first-person 3D Role Playing Game using Unity, C# and Blender