Harvey Tseng

1315 Penataquit Avenue • Bay Shore, NY 11706 • 631-383-8305 • harveytseng2@gmail.com

www.linkedin.com/in/harvey-tseng | https://github.com/Verdenroz

EDUCATION

Farmingdale State College   **GPA 3.98 / 4.00**

- **B.S. Computer Programming and Information Systems**   **Expected Graduation May 2025**
- **Coursework:** Data Structures and Algorithms, Software Engineering, Networks, Database Management, UNIX/Linux, Java Programming, GUI Programming, Mobile Android Development, AI/Machine Learning

SKILLS

- **Languages:** Kotlin, Java, Python, C#, SQL, HTML, CSS, JavaScript
- **Technologies:** Firebase, AWS Cloud, Redis, Docker, FastAPI, Express, React, Node.js, TensorFlow
- **Tools:** Git/GitHub, Agile/SCRUM, Android Studio, VSCode, IntelliJ, Insomnia, Swagger, Figma
- **Soft Skills:** Communication, Teamwork, Collaboration, Leadership, Mentorship, Adaptability

EXPERIENCE

Math Tutor: *Farmingdale State College, 2350 Broad Hollow Rd, Farmingdale, 11735*   *September 2023 – Present*

- Taught statistics, algebra, and basic calculus to my peers, facilitating understanding of the course material.

Coding Coach: *CoachArt, Online*   *November 2022 – February 2023*

- Taught chronically ill children in game development and python.
- Coordinated with parents regarding lessons, schedule conflicts, and special considerations.

PROJECTS

Stock Screener   **Android, Kotlin, Firebase, Algolia**   **| https://github.com/Verdenroz/stockscreener**

- Created an Android application, gathering data from RESTful API and Algolia Search.
- Utilized Figma to design adaptive views, creating these views with Jetpack Compose and Material3 design standards.
- Passed data within MVVM architecture with Kotlin flows, allowing data to flow only when needed.
- Wrote Junit unit tests for each endpoint, ensuring all data is retrieved correctly.

FinanceQuery   **Python, FastAPI, Redis, AWS, Docker**   **| https://github.com/Verdenroz/FinanceQuery**

- Created a Python RESTful FastAPI, scraping data for stocks, market performance, news for use in Stock Screener, being actively maintained and improved.
- Used Pydantic data classes for schemas, combining with FastAPI router and documentation for each endpoint.
- Connected API to Redis, caching endpoint results to specified time limits that are optionally related to current market open status.
- Deployed to AWS Lambda with docker image in GitHub for CI/CD, securing access with AWS Gateway keys.

Stock Diviner   **Java, JavaFX, Firebase**   **| https://github.com/Verdenroz/StockDiviner**

- SCRUM master for a group of four in developing JavaFX GUI project for an application that allows users to correlate price patterns to unconventional technical indicators, leading peer code reviews.
- Designed the entire backend architecture, integrating multiple APIs such as AlphaVantage and Firebase, writing unit tests with Junit for each endpoint.

Google Finance API   **Node, Express, Firebase, Swagger**   **| https://gfinance-api-doc.web.app/**

- Engineered a RESTful Express API with Axios and Cheerio that scrapes Google Finance for relevant information and deployed by Firebase as a cloud function, featuring rate limits and API key authentication.