Karthik Sabhanayakam

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EDUCATION

Basis Independent Silicon Valley   *Class of 2025*

Relevant Coursework: AP Computer Science Principles [5], AP Calculus AB [5], AP Physics 1 [4],
AP Macroeconomics [5], AP Microeconomics [5], AP Calculus BC [5], AP Physics 2 [5], AP Statistics [5]   3.97 GPA

WORK EXPERIENCE

Software Engineer   *May 2023 – Present*

Rate My AP's   Remote

- Designed and developed a scalable backend with NodeJS that efficiently handles user requests for voting and authentication with Firebase
- Utilized a stack of a NodeJS backend with Firebase connecting to a NextJS frontend
- Handled the voting software that made sure that logged in users could only vote once for each of their AP's
- Connected course resources and interviews with the Google Forms API so that people who took courses could provided feeback and advice
- Used technologies like Vercel and GitHub to deploy the app to the web

PROJECTS

Classic Rock Radio | NodeJS, React, Express ⭘

- Developed a full-stack web application using with NodeJS serving a REST API with React as the frontend
- Helps out people who enjoy classic rock find radio stations near them
- Utilized web scrapping, scraps around 50 pages of Wikipedia articles to find FCC registered radio stations

Positivity Bot | JavaScript, NodeJS, DiscordJS, ML ⭘

- Developed a Discord bot using DiscordJS and NodeJS
- Uses machine learning techniques like sentiment analysis to check whether a users messages have been leaning positive or negative
- Uses various REST APIs to assist with detection and also administrative actions
- Uses ChatGPT to provide a list of resources that might make the user a more positive influence on a Discord community

CERTIFICATIONS

Intro to Machine Learning | Kaggle   *July 2023*
Python for Data Science | Sololearn   *September 2022*

SKILLS

Languages: Java, Javascript, Python

Frameworks: ExpressJS, NextJS, React

Databases: MongoDB, Firebase