

# Karthik Sabhanayakam

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## EDUCATION

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**Basis Independent Silicon Valley**  
San Jose, CA

*Class of 2025*  
3.97 GPA

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]

## WORK EXPERIENCE

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**Software Engineer**  
Rate My AP's

*May 2023 – Present*  
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 provide feedback and advice
- Used technologies like Vercel and GitHub to deploy the app to the web

## PROJECTS

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**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

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**Intro to Machine Learning** | Kaggle  
**Python for Data Science** | Sololearn

*July 2023*  
*September 2022*

## SKILLS

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**Languages:** Java, Javascript, Python

**Frameworks:** ExpressJS, NextJS, React

**Databases:** MongoDB, Firebase