Karthik Sabhanayakam

Fremont, CA · ✉ karsab343@gmail.com

 kach0w · kach0w · www.kach0w.com

EDUCATION

Basis Independent Silicon Valley   *Class of 2025*
San Jose, CA   3.97 GPA

Relevant Coursework: AP Computer Science A, Post-AP Linear Algebra, AP Calculus BC, AP Economics, AP Physics C, AP Statistics, AP Economics

EXPERIENCES

Intern at Audax Labs   *October 2023 – Present*
- Working on a project about water fault detection
- Implement a machine learning model for water fault detection to enhance product quality and manufacturing efficiency
- Using technologies such as Kafka and Docker

Leadership Positions at BISV   *Present*
- Vice President of Machine Learning Club (August 2022-Present)
- Vice President of Science Olympiad Team (August 2021-Present)
- Officer in Economics Debate and Outreach Club (August 2023-Present)

Software Engineer at Rate My AP's   *May 2023 – September 2023*
- Designed and developed a scalable back-end with NodeJS that efficiently handles user requests for voting and authentication with Firebase
- Utilized a stack of a NodeJS back-end with Firebase connecting to a NextJS front-end
- Handled the voting software that made sure that logged-in users could only vote once for each of their APs
- Connected course resources and interviews with the Google Forms API so that people who took courses could provide feedback and advice

Student Researcher in ASDRP   *August 2021 - December 2022*
- Conducted research on predicting breast cancer with convolutional neural networks (CNNs), animal migration, and classical languages sentiment analysis with natural language processing (NLP)
- Published over 2 research papers in journals
- Presented at talks with over 200 researchers
- Managed teams and communicated with professors at various universities for their expertise

Volunteering   *Presently*
- Economics Debate and Outreach - teaching student the foundations of economics at libraries
- AC Library Volunteer - Scanning historical documents related to the city of Newark, helping arrange activities for younger kids, and starting the libary's learning garden
- Presidential Volunteer Service Award (PVSA) - Gold 2023

CERTIFICATIONS AND COURSES

Python for Economics and Finance | UCLA   *August 2023*
Pandas | Kaggle   *July 2023*
Intro to Machine Learning | Kaggle   *July 2023*
Cognitive Assistants Course | MIT Beaver Works Summer Institute   *April 2023*
Python for Data Science | Sololearn   *September 2022*

SKILLS

Languages: Java, Javascript, Python
Frameworks: ExpressJS, NextJS, React
Databases: MongoDB, Firebase