

BALAJI RAMA

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Hardworking High School Junior seeking employment. Bringing forth a motivated attitude and a variety of skills, such as being a quick learner & meeting work deadlines with high productivity and efficiency. Adept in various programming languages (including Java, Python, and C++), Machine Learning, and office technology programs. Also skilled at problem solving, especially in programming, math, and science.

SKILLS

- Scripting Languages: Python, JavaScript
- Java & C++ Programming
- Application Programming Interface (API)
- Version Control Systems : Git & Github
- Machine Learning using Octave & Python

EXPERIENCE

Lead Scholar / Teaching Assistant, *Berkeley Coding Academy*, Jul 2022 - Aug 2022, *Remote, Volunteer*

- Helped teach students data science using python libraries such as pandas and scikit-learn.
- Helped students understand ML concepts such as the various types of supervised learning as well as an introduction to neural networks.

Backend Developer, *VolunteerMatch*, Nov 2021 - Present, *Remote, Volunteer*

- Helped create and modify tables using the backend MySQL database.
- Built REST APIs for mobile applications using Spring Boot & JPA.

Coding Instructor (L0 & L1), *Coding with Kids*, Sept. 2022 - Present, *Herndon & Fairfax, VA*

- Taught Elementary - High School kids coding in Python and Java.

Curriculum Developer, *Coding with Kids*, Feb. 2022 - Present, *Herndon & Fairfax, VA*

- Developing curriculum for a Cybersecurity & Ethical Hacking course. Topics covered include password cracking, linux terminal skills, & penetration testing.

VOLUNTEER EXPERIENCE

Energy Masters, *Ecoaction Arlington*, Oct 2022 - Present

- Help residents of low-income housing areas conserve energy, potentially reducing their utility bills and improving their standard of living through home-improvements.

Digital Literacy Volunteer, *Dallas Public Library*, Oct 2022 - Dec. 2022

- Helped senior citizens gain digital literacy skills on a variety of platforms including Google, Microsoft Office, and Canva.
- Aided senior citizens in navigating job websites & provided assistance in crafting resumes.

PROJECTS

- **Data Collection & Analysis Tool (2022)**
 - Developed a dynamic website designed to streamline & improve data collection & analysis of Workday results for a volunteer effort.
 - Tracks volunteer availability.
 - Generates and stores all necessary forms.
 - Collects all form data and graphically generates a Google Sheets.
 - Built on the Flask web framework with a MySQL DB and deployed on Google App Engine.
- **Discord Task Scheduler (2022)**
 - Created a Discord bot that allows for users to create a “task list”
 - Items/tasks can be added and removed once they’re completed.
 - Organized according to day & week.
 - Alerts can be set through live time-tracking.
 - Uses the discord.py client library along with Quart (asynchronous web framework), deployed on Google Cloud Run.
- **Speech Translator Android App (2023)**
 - Developed a multi-page translation app that allows Speech to Speech translation in a variety of languages.

- Uses the SpeechRecognition library to recognize user's speech, ML kit Translate for translation, & TextToSpeech in order to "speak" the words in the desired language.
- **Text Reader ML Android App** (2023)
 - App that connects to the phone's camera to scan & interpret text, whether written or typed.
 - Uses the Google ML kit Firebase library to identify accurate readings.

COURSES

AP Computer Science A, College Board, Jan 2021 – Jun 2021

- Passed AP Exam (Score 5)

AP Computer Science Principles, College Board, Sep 2020 – May 2021

- Passed AP Exam (Score 5)

AP Human Geography, College Board, Jan 2020 – May 2021

- Passed AP Exam (Score 5)

CLEP Chemistry, College Board, Sep 2021 – Jul 2022

- Scored 78/80 on CLEP Exam

CLEP Biology, College Board, Sep 2020 – Aug 2021

- Scored 66/80 on CLEP Exam

CLEP College Composition, College Board, Sep 2021 – Mar 2022

- Scored 78/80 on CLEP Exam

DSST Principles of Public Speaking, Prometric, Sep 2021 – May 2022

- Passed DSST Exam : Scored 478/500 on Part 1 & Scored PASS on Part 2

ACCOMPLISHMENTS

AMC10

- Scored Honor Roll, placed within the top 2.5% percentile of all contestants nationwide.
- Qualified for AIME (American Invitational Mathematics Exam)

AP

- AP Scholar (Scored 5 on 3 AP exams in the same year)

ORGANIZATIONS

- **National Home School Science Honor Society** (since 2022)

- **National Society of High School Scholars** (since 2022)