

Dawit Tekeste

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Education

Virginia Commonwealth University(VCU), Richmond, VA
Bachelor of Science in Computer Science, Software Engineering

Expected Graduation: May 2025
Cumulative GPA 3.9

Skills

Programming skills

Python, Java, C, HTML, CSS, JavaScript, React, PHP, SQL

Additional Software Programs and Online Services

Spring Boot, Flask, Git, AWS EC2, AWS EKS, AWS S3, Docker, Google Cloud Kubernetes Engine, Google Cloud SQL

Relevant Experience

L3Harris Technologies, Software Engineer Intern, Chantilly, VA May 2023 – Jul 2023

- Developed an Orbit Visualizer to track satellites' position across their orbit path. Developed backend service using Spring Boot to accept satellite data and calculate the position of each satellite every 10 minutes 5 days from the current date.
- Worked on the full stack development to connect the frontend using Angular to connect my backend using Restful API
- Optimized my code to track 28,000 space objects simultaneously to visualize possible collision paths, and show the order of battle (satellite metadata). Used Agile development to constantly test and optimize my code

IBM, Accelerate Software Developer Intern, Remote June 2022 – August 2022

- Developed a Full-stack website to keep track of the tasks of users by creating user profiles using React, Node.js, and SQL
- Deployed on IBM Kubernetes for scalability and across 2 different Availability Zones
- Created a user and password sign-in, with password hashing to store passwords securely while dehashing wasn't computing heavy

VCU, Natural Language Processing, Research Assistant(REU), Richmond, VA May 2022 – Aug 2022

- Developed a program using Python, and Machine learning to create a model to extract text, tables, and complex chemical formulas from research papers
- Created additional python's scripts to accept PDFs with different formats and also PDFs that were images by automatically detecting them and using the correct model
- Trained models to annotate data from the text extracted from the PDF.
- Wrote program using Python's Tkinter interface to deploy my program across VCU's Chemical and Bioinformatics department for non command line users

VCU, Research Assistant, Robotics Programming, Richmond, VA Sep 2021 – May 2022

- Compiled and generated projects for 3rd and 4th-year Computer science students to teach them how to use Agile to continuously develop new features for the application
- Set up AWS EC2's virtual machines to prevent breaking students' personal computers and help them understand Linux and cloud computing.
- Created automation to decrease expenses using AWS ALB while being scalable. Used bash scripting to remove old compilations and do health checks, in this way storage was only used for code compilation and the application itself

Independent Software Projects

Amharic Virtual Assistant Aug 2023 – Present

- Building a virtual assistant for Amharic Speakers focused on assisting visually impaired people

Vocal Remover Website <https://github.com/Da-vid21/Vocal-Remover> Mar 2023 – May 2023

- Created a full stack application using Flask and JavaScript to remove vocals from any audio and previewed audio with lyrics for karaoke purposes, hosted on Azure for scalability

OCR Image to Text Converter Website <https://github.com/Da-vid21/OCRRecognition> Feb 2023 – Mar 2023

- Create a full stack application using Flask and JavaScript that utilized a model to detect text from an image and return the text, Encrypted (for sensitive images) and hosted the website on AWS to make my program scalable

Honors and Certificates

- TheCloudBootcamp – Intensive Cloud Computing Completion, IBM Accelerate – Software Developer, Dean's List – 2021-2023, ENPA Volunteer Recognition

Student Organizations

- President, Web Development Club, VCU, Richmond, VA May 2022 – Present
- Board Member, Student Advising Council (Computer Science), VCU, Richmond, VA May 2022 – Present