Diana S. Avila

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Education

Georgia State University | Atlanta, GA — Expected: Spring 2026
Bachelor of Science in Computer Science — *GPA: 3.25/4.0*
Relevant Coursework: System Level Programming, Computer Organization

Awards: Goizueta Foundation LLP Transition Scholarship, HOPE Scholarship

Certification: Certified Internet Web Professional Site Development Associate (May 2022)

Experience

Honors College Program — Dunwoody, GA
Honors Ambassador — *Jan 2023 – Apr 2024*
- Coordinated virtual events, increasing student engagement by 25%.
- Led volunteer initiatives, enhancing community involvement among honors students.

Math Engineering Science Achievement (MESA) — Clarkston, GA
Scholar — *Jan 2023 – Apr 2024*
- Collaborated on engineering projects, fostering a collaborative learning environment.
- Demonstrated dedication with perfect lab attendance, contributing to team success.

Peach State Louis Stokes Alliance for Minority Participation (PSLSAMP) — Clarkston, GA
Scholar — *Jan 2023 – Apr 2024*
- Engaged in biweekly STEM meetings and academic enrichment events, enhancing technical skills.
- Cooperated on group presentations and secured internships, showcasing leadership abilities.

Student Government Association — Dunwoody, GA
Senator of Clubs and Organizations — *May 2023 – Mar 2024*
- Facilitated communication between clubs and administration, strengthening campus relations.
- Organized Inter-Club Council meetings, promoting collaboration among 20+ student organizations.

South Asian Club at Dunwoody Campus — Dunwoody, GA
Vice President — *Sep. 2023 – April 2024*
- Designed promotional materials, boosting event attendance by 30%.
- Delegated tasks effectively, leading to successful execution of cultural events.

Research & Presentations

Summer Bridge Research Program — Clarkston, GA
Researcher — *May 2023*
- Conducted research on *"Testing Plant Leaves for their Possible Anti-Herbivory Effects against Mealworm Beetles"* under guidance of Dr. Mark Graves and Dr. Diane Lahaise.
- Developed hypotheses and experimental designs, analyzing data with scientific rigor.

Avila, Diana. *Gospels of the South.* Presentation at Mario A.J. Bennekin Black History Symposium, Perimeter College Feb 2023

Skills

Programming Languages: Java, Python, Bash
Technical Skills: Experimental Design, Data Analysis, Event Coordination
Certifications: Certified Internet Web Professional Site Development Associate (May 2022)

Kamrul Tarafder

ktarafder01@gmail.com | www.linkedin.com/in/kamrul-tarafder/ | github.com/ktarafder | US Citizen

Education

Georgia State University Atlanta, GA

Bachelors of Science in Computer Science ***Expected Graduation**: December 2025*

GPA: 4.18/4.3

Relevant Coursework: Machine Learning, Object Oriented Programming, Data Structures, Software Development, Design & Analysis of Algorithms, Operating Systems, Database Systems, Data Science

Technical Skills

Languages: JavaScript, Typescript, Python, PHP, C#, Java, C, R, SQL, HTML/CSS, Shell Script
Frameworks & DBs: ReactJS, Express.js, Flask, React Native, Next.js, PostgreSQL, MySQL, MongoDB, Firestore
Software: AWS EC2, AWS S3, Docker, Git, Unity, Github, Figma, Unix, Jupyter Notebooks
Libraries: Pandas, NumPy, Matplotlib, Seaborn

Experience

Solutions Architect Intern May 2024 – August 2024

Crescent Technology (Cloud Consulting Company) *Atlanta, GA*

- Engineered system design for AI RAG chatbot with AWS Bedrock, Pinecone, and AWS EC2 for pharmaceutical manufacturing client that saw 500+ queries in the first two weeks in production
- Revamped Crescent's eLogbook SaaS offering using ReactJS and Tailwind CSS, improving UX by reducing friction in the user flow which decreased support tickets by 10%
- Delivered technical demos and solutions to clients, addressing client needs and key pain points

Undergraduate Research Assistant January 2024 – April 2024

Department of Defense Center for Integrated AI Research at the Edge (CiARE) *Atlanta, GA*

- Conducted comparative analysis of LiDAR and Photogrammetry 3D scanning methods, providing insights that improved image resolution by 15% compared to original data set
- Enhanced image quality by cleaning distortions and filling image holes with Blender, increasing image accuracy on average by 15-20%

Projects

SpecTackles - 2nd Place HackGT Winner | *Javascript, Firebase, Python, Raspberry Pi* Sep 2024 – Sep 2024

- Designed and implemented an award winning AR and IoT experience using Snapchat's SnapAR Spectacles, Lens Studio, and Raspberry Pi to control smart home devices with gesture-based interactions
- Integrated real-time communication between SnapAR Spectacles, Firebase, and Raspberry Pi, achieving seamless data flow and device control, enabling users to toggle physical devices such as light switches through AR

Panther Insights | *Next.js, Typescript, Firebase, Firestore, TailwindCSS, HTML, Python* June 2024 – Present

- Worked in a SCRUM team of six people employing Agile principles, product backlog, and daily standups
- Utilized Next.js for a responsive web application and Firebase for authentication and Firestore for real-time data storage and updates
- Implemented a dynamic star rating system, real-time reviews, and grade distribution charts using Python, improving user engagement and data presentation

Scheduly | *MongoDB, Express.js, React Native, Node.js, Typescript, Expo, Flask, Python* May 2024 – Present

- Architected a cross-platform mobile app enabling college students to effortlessly coordinate schedules
- Deployed backend web server with a CI/CD pipeline using Github Actions, Docker, and Heroku to ensure streamlined deployment process for testing and production
- Developed robust REST APIs with Express.js and Flask, facilitating seamless communication between a React Native frontend and MongoDB backend
- Designed a NoSQL document database with Mongoose, ensuring efficient data storage and retrieval

Leadership Experience

Cofounder & Head of Software Development June 2024 – Present

Rising Tech Professional Association (RTPA) – Georgia State University *Atlanta, GA*

- Developed club website that connected 100+ GSU students, alumni, and faculty with valuable career information by aggregating university career events into a comprehensive calendar view and custom announcements dashboard
- Delegated development tasks to a team of 4 devs by employing the software development lifecycle (SDLC) and building out an extensive product backlog

Nahom T. Abera

(770) 545-9571 | **nahomtesfahun001@gmail.com** | **Website** | **LinkedIn** | **GitHub** | **Snellville, GA**

EDUCATION

Bachelor of Science in Computer Science | Georgia State University | Atlanta, GA **Expected: May 2026**

GPA: 4.0+/4 (See **Official Transcript**)

Relevant Coursework: Algorithms, Data Structures, Digital Image Processing, Computer Organization, Mobile Application Development, Probability & Statistics, Programming Language Concept, Software Development, System-Level Programming

Honors and Awards: GSU Campus Atlanta 100% Scholarship, GSU President's List (Fall 22, Spring 23, Fall 23, Spring 24)

SKILLS

Programming Languages: C, Dart, Java, Python, SQL

Libraries: TensorFlow, Keras**,** OpenCV, NumPy, Pandas, Matplotlib, Flutter, Flask, Tkinter, JDBC

Tools: Arduino, CSS, Firebase, Git, GitHub, HTML, JSON, Jupyter, Linux, MySQL, Raspberry Pi, Robotic OS(ROS)

EXPERIENCE

Undergraduate Researcher | Georgia State University| Atlanta, GA **Apr 2024 - Present**

- Conducting research under Dr. Ashwin Ashok on "Development of Waste Collection Mobile Robot Equipped with Robotic Arm and Trash Sorting Bin using **Robotic Algorithms, Computer Vision,** and **Deep Learning**."
- Designing and 3D printing mechanical components of the robot with integration of LiDAR sensor, cameras and actuators.
- Integrating mechanical parts with Robotic Operating System, Arduino/Raspberry Pi control units and electric motor.
- Developing robotic algorithm using **Python** and **C** for real-time obstacle detection and environment mapping, incorporating **SLAM** and **LiDAR** technology to enable autonomous navigation for the robot.
- Implementing **YOLO-**based **Computer Vision** algorithms to enable robot to detect trash with **Python's OpenCV** library.
- Building waste sorting mechanism for the intelligent trash bin using rotators and actuators to segregate the disposed trash into the designated compartment with **Convolutional Neural Networks (CNN)** using **Python's TensorFlow** library.

Undergraduate Teaching Assistant | Georgia State University| Atlanta, GA **Jan 2024 - Present**

- Tutoring students on core computer science courses, including Python and C programming, data structures and algorithms.
- Offering one-on-one and group study sessions to assist students understand core CS concepts, improve coding skills, and prepare for exams, which contributed to an increase in the average GPA of Computer Science students from 3.31 to 3.34.

PROJECTS

Smart Garage Door Control System (Link) | Raspberry Pi, Python, Dart, Flutter, Firebase **May - Jun 2024**

- Built system to control and monitor garage door using a Mobile App, Firebase Cloud and Raspberry Pi microcontroller.
- Setup the hardware system with Raspberry Pi, 4-channel relay, and magnetic switches connected to the garage door opener.
- Developed Python script to run on Raspberry Pi to read open/close commands from Firebase Firestore, execute them thru the relay switch to open/close the garage door, and update the garage door status based on magnetic switch readings.
- Set up Firebase Firestore for real-time command/status update and secured login/sign up with Firebase Authentication.
- Created Flutter Mobile and Web app to send command and view door status, integrated with Firebase Firestore and Auth.

Jobify.AI (Link) | Python, Dart, Flutter, Firebase, OpenAI API, Gmail API **Aug 2024 - Present**

- Developing an intelligent system consisting of a Mobile App and a Python script to automate job application tracking.
- Building Python script to process incoming emails using Gmail API and using OpenAI API to classify the emails as job application-related or not.
- Integrating functionality into the Python script to extract key info from job application related emails such as company name, job title, location, job number and status using OpenAI API and update/create job entries in Firebase Firestore.
- Designing Mobile and Web app using Dart and Flutter that reads data from Firestore to present it with graph visualizations (pie charts, bar charts, line charts, and tables) for users to analyze job application status, trends, and progress over time.

IntelliDrone System (Link) | Python, OpenCV, NumPy, DJI Tello Drone **Jan - Mar 2024**

- Developed a drone system using Python, and OpenCV to enable the drone to recognize and respond to hand gestures.
- Integrated face detection algorithms to enable the drone to lock onto and follow a specific individual's face.
- Developed a selfie drone subsystem using real-time body pose estimation with OpenCV and NumPy, enabling the drone to autonomously start and stop tracking based on full and half-body poses.
- Utilized Python and OpenCV to visualize the drone's flight path with graphs for refinement of tracking algorithms.

Uber Eats Clone (Link) | Dart, Flutter, Firebase **Mar 2024**

- Developed a food delivery app for Android and iOS devices using Flutter and Dart, containing a dynamic restaurant listing, detailed menu views, and integrated Mapbox for location mapping.
- Developed order management features including cart review and order history tracking using Firebase Firestore database.
- Utilized Firebase Authentication to manage user accounts, support email/password login and third-party providers.