

# Anh Duong

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## EDUCATION

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### Kennesaw State University

Kennesaw, GA

Bachelor of Science in Computer Science, Minor in Software Engineering, GPA: 4.00

Aug 2021 – Dec 2024

- **Relevant Coursework:** Data Structures, Algorithm Analysis, Programming and Problem Solving I & II (OOP), Computer Organization and Architecture, Introduction to Database System, Calculus I & II, Discrete Mathematics, Linear Algebra
- **Honors & Awards:** Sophomore Research Scholar, Summer Undergraduate Research Scholar, First-Year Research Scholar, Honors Program (Honor Research Scholar), x4 President's Lists, Honors Presidential Academic Scholarship.

## SKILLS

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- **Programming Languages:** Java, Python, JavaScript, HTML/CSS, SQL
- **Libraries and Frameworks:** pandas, NumPy, Flask-ask
- **Developer Tools:** Raspberry Pi, AWS, Google Cloud, Google APIs, Alexa Skills Kit SDKs, Eclipse, IntelliJ IDEA, Visual Studio, PyCharm, Jupyter Notebook, Ubuntu, GitHub

## RESEARCH EXPERIENCES

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### Sophomore Research Scholar

Marietta, GA

Research project: "GlucoCheck: Non-invasive blood glucose monitoring"

Aug 2022 – May 2023

- Developed Alexa Skill to retrieve requested glucose value from the GlucoCheck Database using Python and **REST API** and successfully updated most recent value to user at real time with 100% accuracy.
- Developed an application to connect voice-controlled IoT devices to database middleware using **Python**, Flask, and REST API.
- Analyzed machine learning techniques behind skin color and humidity sensors and conducting studies on light-skin interactions contributes to training ML models and reduces **10%** of the average errors in measuring blood glucose values.
- Conducted a systematic literature review on voice assistants in healthcare for a research paper and book chapter.

### Summer Undergraduate Research Scholar

Marietta, GA

Research project: "Smart Voice Assistant for Non-invasive IoT Software for Diabetes Management"

June 2022 – Aug 2022

- Developed **Python** script and Alexa Skills to control Raspberry Pi by using Amazon Echo.
- Used **Flask-ask** and **Ngrok** to establish connections between Raspberry Pi and Amazon Alexa Developer Console, allowing Alexa to perform tasks on Raspberry Pi.

### First-Year Research Scholar

Marietta, GA

Research project: "Non-invasive IoT Software for Diabetes Management"

Oct 2021 – May 2022

- Collaborated with graduate students in designing mobile application interfaces, implementing a testing database using **MySQL**, and researching about the potential integration of voice-controlled IoT devices and Google Home Mini using **Google Actions Console**, Actions SDK, **JSON**, and **Python**.
- Organized, reviewed, and collected data to write a research paper and submitted to **IEEE** International Conference of Digital Health (ICDH) in April 2022.

## PROJECTS

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### Alexa Controlling LED Light on Raspberry Pi

Developer

June 2022

- Established the connection between Raspberry Pi and Amazon Alexa Developer Console by using Flask and Ngrok
- Developed Python script and JSON file that allow Alexa to turn on/off the LED light on the Raspberry Pi
- Skills: Python (Flask/Flask-ask, Ngrok, Pandas), Raspberry Pi, Alexa Skills Kit SDKs, Alexa Developer Console

### "The College Experience"—Programming and Problem Solving I Honors

Kennesaw, GA

Project Member

Aug 2021 – Dec 2021

- Developed an adventure text-based game, designed using pseudocode and **UML** flowchart, implemented using **Java (OOP)**, and tested using **JUnit** Tests.
- Implemented webpage using HTML, CSS, and **JavaScript** to showcase the class main project.
- Organized team meetings, communicated and encouraged team members, and assigned tasks and roles to each member.