

Samarjeet Purba

samarjeetpurba@gmail.com · Samarjeet.Purba@uga.edu · (404) 933-5222 · <https://www.linkedin.com/in/sam-purba-2b8636276/>

EDUCATION

University of Georgia, School of Computing/Terry College of Business
Bachelor of Science, Computer Science | Bachelor of Arts, Economics

Athens, GA
August 2024 - Present

- Emphasis on Cybersecurity, Architecture, Machine Learning, Econometrics
- UGA Honors, Dean's List

WORK EXPERIENCE

UGA Small Satellite Research Laboratory

Athens, GA

Embedded Software Team Lead / General Lab Management

September 2024 - Present / May 2025 - Present

- Leading a team of engineers to develop multipurpose two unit satellite platforms
- Designed and launched software/hardware payloads for edge devices and embedded systems
- Coordinated mission testing with Clean Rooms, TVACs, vibration tables, pressure chambers, etc

The Kroger Company

Cumming, GA

Electronic Clerk / Customer Service

January 2024 - April 2024

- Managed POS systems, digital orders, and electronic records in a retail environment
- Worked with a large team of employees to maintain competent store conditions
- Resolved customer issues and improved general client satisfaction online and in person

Contractors, Closers, and Connections

Remote

Business / Data Analysis Intern

August 2023 - May 2024

- Supported general business administration tasks to improve efficiency
- Worked with data on the real estate industry and market analyses
- Helped out clients to push business relations and sales

RESEARCH

Fine Grained Bimanual Manipulation for Use in Poultry Farms

VIPR Agricultural Robotics

May 2025 - Present

- Research on the creation of machine learning based robotic systems for agricultural/poultry use
- Modeling and build of a quadruped robot and an autonomous claw platform for multipurpose use
- ML based trainable system for the claw and robot built with Python, Pytorch, CUDA, LeRobot

Long Range Transceiver for use in High Altitude Platforms

CURO Research Grant

May 2025 - Present

- Research on the viability of a custom built SDR built for deployment in space
- Full stack development and build for a vast full stack project and usable prototype
- Integrated technology such as Thonny, GNU, OBC scripts, and more to receive/transmit data

Foreign Investment in West African Nations

Economic Research, Capstone

August 2022 - April 2023

- Research on foreign direct investment and its impact on West African Nations
- Economic analysis on FDI and how it meshes with other variables and data points
- Developed a mathematical model in R and combined it with existing data to derive results

Impact of Invasive Species on the Environment of Florida

Environmental Research, Capstone

August 2023 - April 2024

- Research on the spread of invasive species in the Southeastern United States
- Analysis and evaluation of the environmental impact, especially with plants like kudzu
- Evaluated existing research and points to set forth a solution and attempt to reverse damages

PROJECT EXPERIENCE

Environmental Safety/Support App

UGA HacksXI

February 2026

- Short weekend programming run to develop and accomplish programming tasks surrounding the environment
- Created an interactive app to provide users with ways to gamify taking care of their surroundings
- Integrated artificial intelligence to summarize results and create recommendations for users actively

Investing and Trading Support App

November 2025

- 'Secondary' app that allows for users to receive live information to make investing decisions
- Integrated artificial intelligence to take in data and user preferences to create recommendations
- Provides an interactive 'magic' themed dashboard with major activities immediately notifying users

Interactive Finance Tracking/Learning App

UGA HacksX

February 2025

- Short weekend programming run to develop and accomplish programming tasks surrounding finance

- Led a team to create an interactive learning app with features such as stock/monetary tracking and more
- Utilized Flutter, MongoDB, Auth0, Python to deliver a working web based application

Website Development for Personal Use

April 2024

- Personalized development of a website, both front and back end, for business purposes
- Interactive features including live contacts, calendar system, database storage, and email updates
- Developed through HTML/CSS/JS alongside Apache, WordPress, Bootstrap, XAMPP

Experience with Cloud Resources

August 2024 - Present

- Several tests and minor projects with a variety of cloud computing sources
- Worked with their storage systems, authorization, AI models, data analysis, other tools
- Used major providers such as Amazon Web Services, Microsoft Azure, and Google Cloud Platform

Minor Personal Projects

August 2022 - Present

- Development 'portal' that allows for active resource tracking, project initialization, etc
- Creation of a Java/JavaFX based scientific calculator with some basic graphing capabilities
- Build of two platform/driving games in Unity and C++
- Art and digital design through the use of Python Turtle
- Certified in AZ900, Microsoft 365, clean room usage, completed AWS Cloud Practitioner, Harvard CS50, Tormach

EXTRACURRICULARS

UGA HackPack

August 2025 - Present

- Member of UGA's competitive hacking and cybersecurity club
- Participated in clubwide educational workshops
- Competed in various competitive cybersecurity related events

UGA DevDogs

August 2024 - Present

- Member of UGA's large scale team development club
- Collaborated on large scale software projects for many topic
- Worked with a large team and a variety of relevant software tools

CodeHub

August 2024 - Present

- Member of UGA's full stack and general programming club
- Participated in full stack development focused on finance and healthcare
- Presented working prototypes, designs as well as sales pitches for those products

Notable Interests and Hobbies

Present

- Basketball, Volleyball, Badminton, Football
- Gaming, Painting, Reading
- Gardening, Hiking, Rock climbing/Bouldering, Biking

VOLUNTEERING

Meals By Grace

Suwanee, GA

General Team Member

July 2022 - Present

- Supported weekly operations, helping distribute meals to over 100+ families per session
- Coordinated with sponsors and logistics teams to maintain efficiency and success
- Performed actions such as sorting goods and necessary items to help others

Shirdi Sai Temple of Atlanta

Cumming, GA

Traffic Management Lead

March 2022 - Present

- Maintained quality conditions and visitor logistics for weekly events
- Helped supervise parking and the flow of attendees for hundreds of people
- Led a team of volunteers to optimize movement and avoid congestion at the temple

Forsyth County Public Library, Main Branch

Cumming, GA

Library Assistant

May 2022 - August 2023

- Worked with general tasks such as shelving and organization to improve visitor experience
- Assisted with library event planning and community outreach initiatives
- Dealt with database tasks such as holds, returns, and the circulation of library resources