

Saumya Agarwal

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Objective

Computer Engineering major with strong presentation skills. Work well in self-directed and collaborative environments. Winner at a national level mobile application development competition. Currently working to implement a hardware compiler using HDL.

Education

Georgia Institute of Technology | Atlanta, GA
Bachelor of Science in Computer Engineering

August 2022 – Present
Expected Graduation, May 2026

Skills

Software: Java, Python (novice), SQL, HTML/CSS, Swift, Dart

Hardware: Verilog, Intel Quartus Prime

Organizations: Women in Electrical and Computer Engineering, Sigma Sigma Rho Sorority Inc.

Communication: Instruction manuals, Presentations (large and small audiences), Video Editing

Languages: English (native), Hindi (native)

Projects

QuikPlanner Mobile Application | Future Business Leaders of America

January 2022-June 2022

Founder and Developer

Individual End-to-End Mobile Application Development

- Designed and developed a fully functional mobile application that presents school lunch menu, teachers, extracurricular activities, calendar, and student schedule using Swift.
- Rebuilt the application using Flutter development framework to make it platform independent.
- Won 5th place Nationally in FBLA Mobile application development event.

Mini Keyboard | Individual Project

October 2022–November 2022

- Built a small keyboard using Arduino microcontroller.
- Created circuit with switches in which each switch is a letter.

Experience

Vertically Integrated Project | Georgia Institute of Technology | Atlanta, GA

January 2023 – Present

Secure Hardware

- Working with Verilog to code a hardware compiler to ensure malware cannot attack compiler
- Implementing middle and back end of the compiler in HDL

Kroger | Cumming, GA

May – August 2021

Front End Cashier

Kroger is a retail grocery store.

- Assisted multiple customers by scanning and bagging their groceries.
- Managed 6 self-checkout stations and assisted customers whenever any issues arose

Leadership or Activities

Key Club | District Officer

May 2020 – March 2022

- Organized 2 state-wide events with the district board team
- Designed 12 monthly newsletters and mailed it to 60-70 people

Shoknack Global | Intern

May 2021 – August 2022

- Created activity kit for elderly people in Indian nursing homes
- Built a get to know kit to simulate discussion between elderly and teenagers

Relevant Coursework

Introduction to Object Oriented Programming: Developing Java algorithms, user interfaces, and some data structures

Digital System Design: Layers of computing, transforming a specification into implementation