

# Areeba Kausar

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## EDUCATION:

**University of Virginia, School of Engineering and Applied Sciences**, (August 2019 - May 2022)

*Bachelors of Science (B.S) in Computer Science (GPA: 3.78, Major GPA: 4.00)*

*Activities:* UVA Questbridge Scholars, Washington Debating & Literary Society, HackCville, Immersive VR Club, Women in CS

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## SKILLS:

**Programming Languages:** Java, C/C++11, Python, R, x86, Shell, MATLAB

**Web Development Frameworks:** HTML5, CSS3, Modern JavaScript and ES6, React JS, Node JS, MongoDB, JSON, APIs, SEO

**Environments and Tools:** UNIX/Linux, Eclipse, RStudio, Visual Studio, Git, Jira Agile, Slack, Heroku

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## EXPERIENCE:

**Research for Sustainable Commerce, McIntire School of Commerce**, Charlottesville, VA

*Data Science Research Assistant* – September 2019 - Present

- Work with large-scale datasets in R, conducting data wrangling, visualization and exploratory analysis with tidyverse
- Work in liaison with a 3-person team in Agile Environment (Jira) using Git for version control
- Research statistical methods with efficient R implementation; design systematic procedures for data collection/validation
- Crafting sections of the project's final research paper (on track for publication submission by the end of 2020)

**Sana Dairy Startup**, KPK, Pakistan

*Remote Frontend Web Development Intern* – May 2020 - July 2020

- Designed a fully responsive and animated Bootstrap4 theme using HTML5, CSS3, Vanilla JS and several jQuery plugins
  - Created a unique user-centered UI/UX design allowing organization to establish wider and stronger online presence
  - Performed multi-platform testing following cPanel deployment to ensure cross-Browser compatibility
  - Successfully programmed and maintained a fully-functional website, eliminating hiring need for full-time frontend role
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## PROJECTS:

**SforStore** – *Multipage Full-Stack E-commerce Shopping Store* – Summer 2020

- Built a server from scratch using Express, Node JS and MongoDB; integrated with React Routers, Hooks and Redux-based front-end and PayPal API for payment processing; followed MVC Design Schema pattern with extensive Postman testing
- Functionalities include: Landing Page, User Profiles, Shopping Carts, Product Upload, Inventory Management, Checkout

**Word Dash** – *C++ Word Puzzle Solver* - Summer 2020

- Wrote a program that reads in letter grids of varying sizes and a text dictionary, printing out 3-22 letter words found in all 8 directions of grid with lightning speed; used hash-tables for fast lookup and shell scripting for run-time optimization

**CS Friend** – *Java Multithread Printer* - Spring 2020

- Wrote a Java multithreading queue-based printing program that concurrently reads multiple-line greetings from .txt files, utilizes locks and conditions to manage multiple text streams and print greetings into a console-based card

**Forest Run** – *Multiplayer Python Game* - Fall 2019

- Developed a python game with pygame and integrated a local UVA library gamebox; functionality includes: start screen, score keeping, animations, multiple lives, timer and a restart option

**MentView** – *Progressive Web App for Networking* - (In-progress)

- Developing business model and Codebase for an image/video-based professional networking/mentoring platform with React and Firebase; UVA Entrepreneurship cup 2020-2021 Entry
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## VOLUNTEERING:

**Gwinnett County Public Library**, Lilburn, Georgia

*Science and Mathematics Tutor* – August 2018 - January 2019

- Assisted in the planning and launch of tutoring program, Presidential Volunteer Service Award (PVSA) Recipient