

Areeba Kausar

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EDUCATION:

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

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

Coursework: Multivariable Calculus, Discrete Mathematics, Theory of Computation, Advanced Software Development Techniques, Algorithms, Computer Architecture, Cyber Security, (In-progress:) Operating Systems, Cloud Computing, Database Systems

Activities: UVA Questbridge Scholars, Washington Debating & Literary Society, Alpha Phi Omega (APO), Women in CS (WiCS)

SKILLS:

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

Web Development Frameworks: HTML5, CSS3, Django, PHP, JavaScript, TypeScript, React, Node JS, MongoDB, SQL, JSON

Environments and Tools: Git, Jira Agile, Heroku, RStudio

EXPERIENCE:

Automatic Data Processing (ADP, LLC), Alpharetta, GA

Software Engineering Intern – June 2021 – August 2021

- Completed coding tasks for maintenance of Benefits Enrollment Application UI under Global Product and Tech Program
- Currently working with React, Redux, TypeScript and in-house Tech Frameworks following scrum methodologies

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 2021)

Sana Dairy Startup, KPK, Pakistan

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:

Cache Attack – C++ Covert Channel Timing Attack – Spring 2021

- Wrote a program that implements the prime+probe variant of a cache timing attack, where a Trojan and a Spy exploit the timing differences of a cache hit and a miss, encoding and covertly exchanging a secret message.

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

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 package and integrated a local UVA library gamebox; functionality includes start screen, score keeping, animations, multiple lives, timer and a restart option
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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