Alex Shaw

804-252-5454 ● alex.shaw7117@gmail.com ● https://alexshaw777.github.io/

EDUCATION

University of Richmond, VA   August 2019 - May 2023
Bachelor of Science in Computer Science with a Concentration in Data Science and Statistics,   GPA 3.2
Minor in Business Administration
- Relevant courses: Data Structures, Discrete Structure, Software Systems Development, Computer Organization, Algorithms, Linear Algebra, Design and Programming Languages

Computer Skills and Languages

Java	JavaScript	MATLAB
C/C++	SQL	Ada
Python	MIPS Assembly	Smalltalk
RStudio	Logisim	Lisp
HTML/CSS	Fortran	Scheme

EXPERIENCE

Realtime Sports, Boston, MA (Remote)   August 2021 – January 2022
Marketing Intern
- Facilitated communication with diverse businesses to establish strategic partnerships with Realtime Sports.
- Implemented marketing strategies to enhance brand visibility and drive user acquisition for the Realtime app.
- Engaged in a comprehensive observation of front-end app development using React, gaining valuable insights into the process.
- Sustained the engagement of four individuals, enticing them to persistently partake in Realtime Sports wagering for a period exceeding three months subsequent to the promotional campaign.

International Collegiate Programming Contest, Richmond, VA   February 2022 – February 2022
Contestant
- Fostered effective collaboration and communication with teammates during the 5-hour duration.
- Devised strategic roles and formulated relevant questions for teammates to fulfill their responsibilities effectively.
- Attained a notable position in the rankings upon the culmination of the contest, subsequently being bestowed with certificates of commendation for our achievements.

EL VRAJ Corp, Chesapeake, VA   April 2020 – June 2020
Intern, Accounting
- Verified a 5% increase in revenue by successfully resolving rejected claims.
- Provided guidance and consolation to the primary founders regarding the advanced functionalities of Microsoft Excel and Word.
- Acquired proficiency in healthcare software applications such as Caretime and Zermed. Employed these applications with strategic precision to effectively resubmit claims that had not been duly remunerated in their entirety.

PROJECTS (Refer To https://Alexshaw777.Github.Io/)

CPUs in Logisim and C++
- Wrote an Assembler in C++ that turns a file containing MIPS assembly into a file that contains hex-encoded machine code.
- Designed a processor in Logisim that processes the binary (hex) encoded instructions from the assembler.
  - Encapsulates the Register file, ALU, Instruction Memory, Program Counter, Data Memory and Control Head
- Added memory mapped I/O functionality in Logisim to processor through a central I/O bus and added keyboard and terminal functionality.

Intersection Simulation in C++
- 4 lane intersection coded (eastbound (EB), westbound (WB), northbound (NB), southbound (SB)) and 3 different types of vehicles implemented (cars, SUVs and delivery trucks).
- Traffic light controlled through random number generation.
- Simulation dependent on integer-valued clock for vehicle movement.
- Used test-driven development to code and develop the simulation.

Website in HTML/CSS/JavaScript
- Designed two websites (personal portfolio and Computer Science Research prototype).
- Used principles and insights of Human Computer Interaction to help develop website flow and architecture.

LEADERSHIP & SKILLS

Spider Ventures (SV), University of Richmond, VA   April 2021 – April 2022
Upper-level Associate
- Shaped the beginning of SV through technology speakers and advertising.
- Formed a podcast discussing different sectors of technology like cybersecurity, AI, Quantum Computing and IT