Alex Shaw

804-252-5454 ● alexshaw461@gmail.com ● https://alexshaw777.github.io/_ ●
https://www.linkedin.com/in/alex-shaw-579b391ba/

EDUCATION

University of Richmond, VA   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	SharePoint/ SP DOM	Lisp
C/C++	MIPS Assembly	XML/CAML
Python	Logisim	Excel
RStudio	Fortran	Scheme
HTML/CSS	MATLAB	Power BI
JavaScript	Ada	
SQL	Smalltalk	

EXPERIENCE

Peraton/NASA, Wallops Island, VA   August 2023 – Present
Database Analyst / Systems Admin
- Managed comprehensive configuration profiles for organization-controlled systems, encompassing mainframes, distributed systems, microcomputers, and dial-up and wireless access ports.
- Detail-oriented professional with a demonstrated track record in deploying Ground Station Engineering laptops to scientists while meticulously configuring them to adhere to NASA protocols. Proficient in utilizing specialized external drives such as "WOUT" to facilitate seamless configuration and user credential setup. Possessing strong technical acumen and a commitment to precision, I ensure that each device is tailored to meet stringent NASA standards, facilitating optimal performance and data security for scientific endeavors.
- Proactively executed necessary system changes to fortify system security. Immediate action was taken for systems under launch or mission freeze upon the freeze's conclusion.
- Conducted requisite security tests and meticulously assessed and validated the implementation of security controls.
- Adhered to the incident response procedures of the organization's Center and Enterprise Service Desk.
- Effectively maintained interconnected databases spanning NASA's extensive system network using SharePoint. Some examples are NASAs employee processing tool and IT request database.
- Leveraged HTML, CSS, JAVASCRIPT programming expertise to streamline the completion and accessibility of the intricate IT Dashboard.
- Dedicated professional adept in facilitating the rigorous RBD (Request for Business Delegation) process for esteemed NASA scientists, ensuring seamless foreign travel arrangements essential for crucial testing and launches. Possessing a keen eye for detail and exceptional organizational skills, I streamline procedures to guarantee compliance with stringent protocols and regulations, thereby enhancing efficiency and expediting the travel approval process.
- Fostered seamless collaboration and communication within a dynamic team environment by leveraging Microsoft Teams daily. Employed this cutting-edge platform to facilitate efficient information exchange, coordinate projects, and ensure alignment across departments.

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/)

NASA IT Helpdesk using HTML/CSS/JS and SharePoint/CAML/XML
- Designed and customized a NASA IT helpdesk website to efficiently track data and facilitate issue resolution.
  - For inquiry, email me at alex.shaw7117@gmail.com; due to NASAs strict security, viewing of said website needs confidence levels.
- Utilized SharePoint lists and JavaScript to develop a dynamic website for real-time inventory management, issue ticketing, software downloads, updates, and Ground Station laptop configurations.
- Proficiently queried data and ensured robust user authentication to bolster site distribution and fortify data security.

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.
- Dynamic podcast creator at the forefront of engaging discussions exploring diverse facets of technology, including cybersecurity, AI, Quantum Computing, and IT.