Nathan Albe

(703) 986-7462 | nalbe@gmu.edu | https://www.linkedin.com/in/nathan-albe | https://github.com/nathanalbe

EDUCATION

George Mason University · Fairfax, VA
Bachelor of Science in Computer Science, Minor in Computational Data Science, GPA: 3.7 · Expected May 2026
Relevant Coursework: Data Structures and Algorithms(Java), OOP(Java), Low-Level Programming(C), Computing for Scientists(MATLAB), Discrete Math, Linear Algebra, Statistics
CodePath Intermediate iOS Development: 10-week course on iOS Mobile Development

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Swift, HTML/CSS, JavaScript, ReactJS, VueJS, Quasar, MATLAB, SQL
Technologies/Tools: Linux, Unix, Git, JUnit, Gradle, NodeJS, Flask, Django, vSLAM, OpenCV, Firebase, Parse, PostgreSQL
Certifications: AWS Certified Cloud Practitioner, **Security Clearances:** Interim Secret

WORK EXPERIENCE

Lockheed Martin · Owego, NY
Incoming Systems Engineering Intern · Aug 2024 – December 2024

Applied Fundamentals Consulting · Reston, VA
Software Engineering Intern · June 2024 – Aug 2024
- Designed the front end of a VueJS application using Quasar for a feedback collection web application that streamlines developer's bug fixes and client communication
- Implemented an admin/user system to actively track users' feedback status and improve bug fix times, resulting in a 90% positive client response
- Adopted scrum development practices while communicating with the manager and team for design integration
- Developed a responsive database for storing user, feedback, project, and company information using PostgreSQL

George Mason Department of Computer Science · Fairfax, VA
Undergraduate Teaching Assistant · Jan 2023 – Present
- Leading office hours for 600 students in the Introduction to Computer Programming course
- Conducted weekly review sessions on topics involving Python(fundamentals, expressions, control structures, simple data types, input/output, and unit testing) and Linux/Unix(command line, file manipulation, networking)
- Collaborated with faculty to assist comprehensive Python course materials, encompassing 5 exercises, 11 assignments, and 7 programming projects

PROJECTS

PatriotHacks Hackathon (Java, OpenCV, vSLAM, Gradle, Computer Vision)
- Developed an AI Vision Navigation System for visually impaired individuals that won 1st place among 500 students
- Using Java, OpenCV, and vSLAM technologies trained the system on data models to identify 80 different objects
- Implemented a custom specialized Neural Network for gathering spatial information to alert the user of objects

Shrinkster (Python, JavaScript, ReactJS, HTML/CSS, Flask, Firebase)
- Using React developed a web application to allow users to truncate an existing long URL
- Built Flask server for Firebase-mediated URL redirection, transforming long URLs into shorter, accessible formats
- Implemented Firebase Realtime database for efficient storage and retrieval of URLs to and from the server

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow · Washington, DC
Career Preparation Fellow · Jan 2024 – Present
- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Bloomberg, LinkedIn, and Google

ColorStack at George Mason University · Fairfax, VA
Founding President · Jan 2024 – Present
- Established and led the first ColorStack chapter at George Mason University, fostering an inclusive environment for Black and Latinx CS students
- Implemented career programs (resume workshops, interview prep, job search support), and continuously improved chapter activities through feedback
- Secured funding through grants and sponsorships, and gained over 40 members during the inaugural semester