Nathan Albe

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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