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), Operating Systems(C), Data Mining(Python), Data Visualization(Python), Databases(SQL), Discrete Math, Linear Algebra, Statistics

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Objective-C, Swift, HTML/CSS, JavaScript, Typescript, MATLAB, SQL
Technologies/Tools: Linux, Git, Docker, Jenkins, Node.js, Flask, Django, GraphQL, Texture(iOS), OpenCV, Firebase, PostgreSQL
Certifications: AWS Certified Cloud Practitioner
Active Security Clearance: Secret

WORK EXPERIENCE

Pinterest   Remote
Software Engineer Intern   May 2025 – Aug 2025
- Redesigned metadata layouts for product and recipe Pins (shipping info, ratings, recipe data), boosting clickthrough rate by 13% and impressions by 8%
- Built a dynamic color filter bar for Women's Fashion-related Pins in Objective-C and Python, increasing filter engagement by 17% and saves by 10%
- Developed backend GraphQL API logic in Python, designing schemas, resolvers, and implementing consistent pagination, bookmarking, and ordering

Lockheed Martin   Owego, NY
Systems Engineering Intern   Aug 2024 – Dec 2024
- Conducted regression testing and validated Jenkins builds to ensure RF signal detection compliance, improving operational reliability by 15%
- Performed system testing to validate MDLT tool requirements, enhancing RF signal emitter identification and threat detection
- Built and debugged Java frontend features with JTheme to resolve UI issues and streamline workflows

Applied Fundamentals Consulting   Reston, VA
Software Engineer Intern   June 2024 – Aug 2024
- Built a VueJS + Quasar feedback web app with an admin/user system, improving bug fix times and achieving 90% positive client feedback
- Designed and implemented a PostgreSQL database to store user feedback, project details, and company information
- Collaborated in an Agile/Scrum workflow, aligning design and development with managers and the team

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 Convolutional Neural Network (CNN) to gather spatial information and alert users of nearby objects

Shrinkster (React, TypeScript, Node.js, Flask, Firebase)
- Developed a full-stack URL shortener with React + TypeScript frontend and Node.js backend and Flask for redirection.
- Implemented Firebase Realtime Database to handle 1,000+ link generations in testing with **<200ms latency**.
- Enhanced UI with validation and error handling, improving successful link creation by **25%** vs. baseline prototypes.

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
- Gained professional and technical skills through case studies and conferences with firms like Bloomberg 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 resume workshops, interview prep, and job search support, growing the chapter to 100+ members