

Ashton N. Holland

US Citizen | Lawrenceville, GA | asstholland@gmail.com | +1 (623) 499-5112

Education

Georgia Institute of Technology | Atlanta, GA

Expected Graduation: May 2026

B.S. in Computer Science | GPA: 3.70 | Concentrations: Cybersecurity & Privacy and Information Internetworks | Current Senior

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Computer Organization & C Programming, Systems and Networks, Algorithm Design and Analysis, Machine Learning

Experience

Dell Technologies | Software Engineering & Product Management Intern

June - August 2025

Round Rock, TX | Dell Pricing

- Increased promotional ROI by 35% by building a full-stack analytics platform (Flask, Polars, WebSocket) analyzing multi-year performance across 1M+ SKUs; created an algorithm combining revenue, margin, velocity, and ROI to forecast/prioritize campaigns.
- Accelerated planning 60% and cut analyst review cycles 75% via AI-generated performance summaries, price-elasticity modeling, interactive KPI dashboards, and automated reporting.
- Drove +\$3M margin and reduced promos 18% through segmentation insights; secured adoption by leading targeted VP- and SVP-level demos and embedding the platform into FY25 promotional planning.

Voltihost | Software Engineering Intern

May - August 2024

Remote | Startup Focusing on Creating Digital Solutions

- Engineered a data pipeline reducing AWS processing load by 83% and storage via advanced data cleaning.
- Expanded mobile app functionality by integrating live reporting/dashboards with programmatic data access.
- Deployed a Docker-based email server on AWS EC2, cutting email costs by ~97% and streamlining onboarding.

GT Research | Smart Stadium Project

August 2024 - Present

Machine Learning Subteam

- Built Markov-chain models to identify football plays with >85% accuracy using priors + video features.
- Automate data cleaning and error correction in play-sequence logs, improving dataset reliability.
- Co-authored section on Markov chain methodology for research paper in *Springer-Nature Computer Science* journal.

Projects

Interactive 3D Personal Portfolio

August 2025 - September 2025

- Shipped a responsive 3D portfolio (React, Three.js/WebGL, Vite); Vercel-hosted and open-source on GitHub for reuse and refactoring.
- Modular components and organized assets for maintainability and scale.

WanderSync: Collaborative Travel Itinerary

September 2023 - December 2023

- Android app (Android Studio, Firebase Realtime Database) enabling real-time, multi-user itinerary editing.
- Designed collaborative features & UI with Jetpack; optimized Firebase queries for integrity and scalability.

HazardWise App

September 2023 - Present

- Planned, interviewed stakeholders for, and developed mobile app to predict highest-risk natural disasters at any address
- Created a .NET C# backend to process database and call FEMA APIs & used Swift for frontend and map integration

Skills

Programming: Java, Javascript, Python, C++, C, C#, SQL, LaTeX, HTML, Rust, CSS, React, Node.js, Swift, Assembly, Three.js, Vite

Technologies: AWS (EC2, S3, Timestream, Lambda, Cognito), Git, Postman, Flume, APIs, Pipelines, CI/CD

Languages: English (Native), Spanish (Intermediate)