

# Andrew Wulff

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## EDUCATION

### Virginia Tech

*Bachelor of Science in Computer Science, Minor in Mathematics*

Blacksburg, VA

*Expected Graduation May 2027*

**GPA:** 3.83/4.00 | **In-Major GPA:** 3.95/4.00

**Dean's List with Distinction:** Fall 2023 - Spring 2025

## EXPERIENCE

### Founding/Full-Stack Software Engineer

Feb. 2025 – Present

*DDNOW*

*Blacksburg, VA*

- Designed and implemented organization onboarding, enabling clubs to register organizations, create admin accounts, and enforce organization-scoped data and permissions
- Built an administrator control layer allowing org admins to configure driver and rider behavior via organization-specific settings
- Contributed to stabilizing the app for TestFlight deployment through debugging, integration, and refinement of core workflows; supported live MVP demos with real users

### Pro Shop Attendant

May 2025 – Aug. 2025

*River Creek Golf Club*

*Leesburg, VA*

- Developed expertise in sales and customer service by effectively communicating with customers, identifying needs, and providing tailored product recommendations to enhance satisfaction

### Golf Sales & Service Specialist

Nov. 2022 – Aug. 2024

*Dick's Sporting Goods*

*Sterling, VA*

- Delivered personalized customer service by advising players on equipment, driving sales, and ensuring high levels of satisfaction

## PROJECTS

### ATC System | *Java*

Nov. 2025 – Dec. 2025

- Developed a 3D Air Traffic Control system in Java using Skip Lists and Binary Spatial Trees for efficient object tracking and collision detection
- Implemented dual-indexing architecture supporting both name-based queries and spatial range searches across a 1024 x 1024 x 1024 coordinate space
- Designed object-oriented hierarchy for 5 aircraft types with comprehensive validation and bounding box intersection algorithms

### FinanceFlow | *TypeScript, Next.js 14, Express, PostgreSQL, Prisma, Redis, Docker*

Aug. 2023 – Present

- Developed a full-stack finance tracker with Express REST API and Next.js frontend supporting transaction management and budget tracking
- Implemented secure authentication system using JWT with refresh tokens, Argon2 hashing, and rate limiting middleware
- Added a service to generate spending insights and category breakdowns using PostgreSQL and Redis caching

### Fraternity Website | *HTML, CSS, JavaScript*

April 2024 – Present

- Redesigned and deployed a responsive website to onboard new students and streamline fraternity communications
- Implemented features such as an email subscription system, improving outreach to 200+ members and alumni

### Stock Price Assistant | *Python, Twilio API, Alpha Vantage API, YAML, SQLite*

Aug. 2023 – Sep. 2023

- Developed a stock assistant with automated SMS/email alerts for scheduled updates and threshold-based changes
- Built modular Python architecture using Alpha Vantage API and Twilio with SQLite database for price tracking
- Created CLI tool using Click/Rich for watchlist management and updated legacy codebase to 2,000+ lines of production code

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, x86 Assembly, Dart, SQL (Postgres), JavaScript, HTML/CSS

**Frameworks:** Flutter, React Native, Flask, JUnit

**Developer Tools:** Git, Docker, VS Code, Visual Studio, Eclipse