

Piyush Komali

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EDUCATION

Virginia Tech

Blacksburg, VA

BS in Computer Science

Expected Graduation: May 2027

- *Awards:* Dean's List, Charlotte Alumni Chapter Scholarship
- *Relevant Coursework:* Computer Systems/Architecture, Data Structures and Algorithms, Combinatorics, Discrete Math, Linear Algebra, Statistics, Intro to Data Analytics and Visualization
- *Extracurriculars:* Virginia Tech Men's Club Ultimate Frisbee - **Captain**

EXPERIENCE

Echio

May 2025 - August 2025

Software Engineer Intern

Remote

- Implemented in-house video streaming support for **HLS** and **Adaptive Bitrate Streaming(ABS)** with Next.js in client-side, **improving UX** and decreasing load times by **65%**
- Initiated a **white-label** solution across agency domains by implementing a custom **Express API** for themeing using **Material UI**, enabling customization for agency portfolio
- Optimized core API fetching from Client-Side Rendering(CSR) to Server-Side Rendering(SSR) using **Next.js Server Components** reducing page load times by **35%**
- Built an **ETL Pipeline** in **Python** to clean and migrate **700,000+** influencers from **MongoDB**, delivering a dashboard with detailed insights to stakeholders

VTHacks

February 2025 – Present

Software Development Lead

Blacksburg, VA

- Architected development of **5+ features** for VTHacks event application with **Next.js**, **Shadcn**, used by **1000+ participants** for navigation, check-in, and sponsor engagement
- Integrated **Supabase Auth** for user login and real-time event validation with **PostgreSQL**, improving data accuracy and sponsor retention by **30%**
- Migrated legacy backend from spreadsheets to a structured **PostgreSQL** database, improving internal admin efficiency by **50%** and eliminating prior constraints

Virginia Tech - CS Department

January 2025 – Present

Teaching Assistant

Blacksburg, VA

- Guided **100+** students in core CS topics such as Python, Git, containers, SQL, Web Dev, and LLM applications
- Held weekly office hours and contributed to assignment reviews, grading, and feedback sessions under **Prof. SB Nizamani**

PROJECTS

JEART Portfolio

jeremyevansart.com | *Next.js, Contentful CMS*

- Built a modern and reactive art portfolio using **Shadcn** for **NBA Dunk Contest** champion **Jeremy Evans**
- Maintained scalability by integrating the **Contentful CMS** for content management, allowing ease of upload
- Ensured **type-safe** content delivery with CMS-backed JSON schema validation and circular reference control

UFA Stats Application

[GitHub](#) | *Flask, React.js, UFA API*

- Developed and deployed a **full-stack** web app surfacing key Ultimate Frisbee Association(**UFA**) statistics used by **150+ fans** decreasing lookup time by **35%**
- Designed RESTful APIs using **Flask**, with robust CRUD support and JWT authentication stored in **SQLite**
- Deployed frontend(**React.js** + **Tailwind**) on Vercel and hosted backend infrastructure using EC2 for high availability

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, SQL, Java, Swift, C

Developer Tools: Contentful CMS, PostgreSQL, SQLite, MongoDB, Supabase, Firebase, Git, Docker, Postman

Libraries/Frameworks: Next.js, React.js, Node.js, Tailwind, Flask, Redux