Piyush Komali

704-236-1122 | komali.piyush@gmail.com | LinkedIn | github.com/piyushkomali

EDUCATION

Virginia Tech <div align="right">Blacksburg, VA</div>
BS in Computer Science <div align="right">*Expected Graduation: May 2027*</div>

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

EXPERIENCE

Echio <div align="right">May 2025 - August 2025</div>
Software Engineer Intern <div align="right">*Remote*</div>

- 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 <div align="right">February 2025 – Present</div>
Software Development Lead <div align="right">*Blacksburg, VA*</div>

- Led development of event application used by **1000+ participants**, integrating features for navigation, check-in, and sponsor engagement with **Next.js, Shadcn**.
- Integrated **Supabase Auth** and designed relational **SQL** schemas to improve real-time event validation and data accuracy by **30%**.
- Migrated legacy backend to structured **PostgreSQL**, applying principles of **data modeling**, reducing manual effort by **50%**.

PROJECTS

JEART Portfolio
jeremyevansart.com | Next.js, Contentful CMS, AWS Amplify, Cloudflare Workers

- Built a modern, responsive portfolio for NBA champion Jeremy Evans using **Next.js, Shadcn, and Contentful**.
- Deployed with **AWS Amplify** for scalable hosting and leveraged **Cloudflare Workers** for serverless edge functions enabling faster load times and API routing.
- Implemented **type-safe content delivery** with schema validation, supporting high availability and secure content management.

UFA Stats Application
GitHub | Flask, React.js, AWS, SQL, Cloudflare AutoRAG

- Developed and deployed a **full-stack web app** surfacing Ultimate Frisbee Association statistics, reducing lookup time by **35%**.
- Engineered REST APIs in **Flask** with CRUD operations, JWT authentication, and persistent storage in **SQL databases**.
- Integrated **Agentic AI** features using **Cloudflare AutoRAG**, enabling intelligent search for players/games and generating personalized statistic pages.
- Deployed backend on **AWS EC2** with CI/CD pipelines; designed frontend data visualizations using React.js + Tailwind for **150+ active users**.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, SQL, Java, Swift, C
Developer Tools: Git, Docker, PostgreSQL, MongoDB, SQL/NoSQL Databases, Supabase, Firebase, Contentful CMS, Postman, Jira, GitHub
Libraries/Frameworks: React.js, Next.js, Flask, Node.js, Tailwind, Pandas, NumPy, Scikit-learn, PyTorch