

# Rumi Khamidov

☎ +1 703-386-6727 | @ rukham004@gmail.com | 🌐 rumi-khamidov | 🎧 rkh4m | 📍 Washington D.C.

## EDUCATION

### Virginia Tech

*B.S. Computer Science, Mathematics Minor; GPA: 3.6*

Blacksburg, Virginia

*May 2026*

**Organizations:** BOLT, Russian-Speaking Student Association, SASE, CS Careers, MLH, VioletHacks

**Relevant coursework:** Software Design and Data Structures, Problem Solving in CS, Computer Organization, Multivariable Calculus, Discrete Math

## SKILLS

**Languages:** Java, JavaScript, Python, CSS, HTML, LaTeX, C/C++, SQL, MatLab

**Tech Stacks:** React, React Native, Expo Go, Git, Axios, Express, NodeJS, PostgreSQL, XCTU

## PROJECTS

### HackViolet 2024 WINNER: Baby Blues

- Constructed the 'Best Hack (app) to Support Women' that implements **Hume AI API** to quantify emotions based on speech (on a confidence scale of **0.0 - 1.0**) in tandem with **Spotify's API** to recommend playlists as part of music therapy for women suffering postpartum depression.
- Coordinated the team and was the lead designer for the front-end using **React Native** and **Expo Go** to create a minimalistic **UI/UX** with playable embedded Spotify playlists and graphs of the most common emotion expressed throughout the day.

### Personal Workout Schedule

- Developed a daily updating schedule of my planned gym workouts for the week using concepts such as a **queue** data structure, local storage, and front-end **CSS** customization via **JavaScript** and the **React** library.
- After the creation of an initial template of the next **7 days**, the user can choose to change the schedule by editing the focus type of the day and specific workouts associated with each day.

### BOLT: Wireless Communications

- Established the functionality to wirelessly transfer **64 - 128 bytes** of encrypted data every **500 milliseconds** using **XBee** transmitters.
- Worked in collaboration with the **CAN Testbench team**, which gathered the performance and analytical data from the motorcycle, as we successfully sent and recieved information through **XCTU**.

## RESEARCH

### VizPI

*Contributor*

Virginia Tech

*Jan 2024 - Present*

- VizPI is an **interactive web tool** focused on providing instructors with a way to monitor, assess, and conduct real-time programming exercises in one, simple and effective, environment.
- Refactored front-end database calls from **Firebase** to **PostgreSQL** through **Nodejs** via secure fetch requests using **Axios** and established custom **APIs**.

## EXTRACURRICULARS

### BOLT

*Project Contributor*

Virginia Tech

*Oct 2023 - Present*

- Club Description: A design team of VT Engineers spearheading the construction of a fully electric motorcycle used for competitions, hands-on experience working with a team, and collaborating on interdisciplinary projects within BOLT.
- Role: Remodeled the controls design and established data collection and dispersion algorithms for the electric motorcycle.

### Russian Speaking Student Association

*Member*

Virginia Tech

*Sep 2023 - Present*

- Promoted Russian and Russian-speaking cultures and traditions in Virginia Tech and connected with peers through our common language and similar backgrounds.
- Personally spread Tajik culture through food, presentations of the beautiful landscape, and anecdotes from my time there, as the sole representative of Tajikistan.

### Society of Asian Scientists and Engineers

*Member*

Virginia Tech

*Jan 2024 - Present*

- Promoted inclusion and diversity within the university and the club itself along with, specifically, other Central Asian members.