

# Rumi Khamidov

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## EDUCATION

### Virginia Tech

*B.S. Computer Science, Mathematics Minor; GPA: 4.0*

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, Python, JavaScript, CSS, HTML, LaTeX, MatLab, C/C++ (familiar)

**Tech Stacks/Concepts:** React, React Native, Expo Go, Xbee, XCTU, Data Structures

## 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 structure required to monitor the motorcycle's status through the development of the receive functionality of the **XBee** transmitters that converts hexadecimal information of **8 to 16 bytes** into formatted **ASCII**.
- Worked in collaboration with the **CAN Testbench team**, which gathered the data from the motorcycle, as we successfully sent and recieved information.

### Snake Game

- Recreated the infamous game using Carnegie Mellon's **graphics-based Python** learning website: 'CS Academy.'
- Achieved **second place** for the DE Programming Unit 10 'Creative Task' May 2022 competition and was featured on Carnegie Mellon's 'CMU CS Academy' YouTube channel.

### Influencer Data Visualization

- Delegated roles for and coordinated the creation of an algorithm that parsed, visualized, and sorted engagement rates of internet personalities in a monthly/quarterly fashion as part of a collaborative **Java** project.

## 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.

## AWARDS

**Recognitions:** Best Hack to Support Women (HackViolet 2024), Dean's List Fall 2023, Governor's Seal (2023), STEM Seal (2023), FCPS Medal of Honor (2023), Service Learning Cord (2023)