

Rumi Khamidov

☎ +1 703-386-6727 | @ rukham004@gmail.com | 🌐 rumi-khamidov | 🎧 rk4m | 📍 Washington D.C.

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)