

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, JavaScript, Python, CSS, HTML, LaTeX, C/C++, SQL, Bash, 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. With constant feedback from professors and students, VizPI utilizes an **Agile Methodology** to ensure the effectiveness and usefulness of the tool.
- Refactored front-end database calls from **Firebase** to **PostgreSQL** through **Node.js** via secure fetch requests using **Axios** and established custom **APIs**.
- Remodeled the UI/UX of the webpage's create-a-session prompt, list of previous sessions, and student error visualization using the **MUI** and **React** libraries to ensure a sleek yet informative design on the instuctor end of the product.

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.