

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: 3.72**

Blacksburg, Virginia

May 2026

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

Relevant coursework: Data Structures and Algorithms, Problem Solving in CS, Computer Organization, Multivariable Calculus, Discrete Math, Applied Combinatorics and Graph Theory

SKILLS

Languages: Java, JavaScript, Python, CSS 3, HTML 5, LaTeX, C/C++, SQL, Bash, MatLab

Tech Stacks: React, React Native, Tailwind CSS, Expo Go, Git, Axios, Express, Bootstrap, 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.

Project Torch: The Burg Website

- Built a responsive **Vite + React** website for a local business in Blacksburg for free in a team of other Virginia Tech computer science students.
- Created the home page and navigation bar using the **Bootstrap** and **MUI** React libraries with **Tailwind CSS** for extra customization and creating a unique visual design.

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 received information through **XCTU**.

RESEARCH

Prime Lab: VizPI

Contributor

Virginia Tech

Jan 2024 – Present

- Contributor on an **interactive web tool** focused on providing instructors 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 **RESTful API** calls from **Firebase** to **PostgreSQL** through **Node.js** via secure fetch requests using **Axios** and **Express** as well as establish 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 instructor 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.