

# Soumya Khanna

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## EDUCATION

### Virginia Polytechnic Institute and State University

2018-Present

Bachelor of Science Computer Science

Expected Graduation: May 2021

- Semester GPA: 3.86, Cumulative GPA: 3.50

- Dean's List Fall '18, Spring '19, Spring '20

*Relevant Coursework:* Intro to Software Design, Software Design and Data Structures, Intro to Problem Solving in CS, Intro to Computer Organization, Multivariable Calculus, Discrete Mathematics

## WORK EXPERIENCE

### Intern, Accenture

[Cancelled due to COVID-19]

### Undergraduate Research Assistant, Virginia Tech Centre for Human-Computer Interaction

Oct 2019 – Present

- Currently, working on a project called Narcissistic Eyes to study self-monitoring in video conferences based on different social aspects
- Worked on a project called VR Viewfinder to obtain insight about first person perspective and third person perspective while watching live VR art performances. Working in Unity (C# and JavaScript) to create a better VR environment; developed a color picker in Unity for the project [Spring 2020]
- Previously, evaluated the performance of 360-degree videos based on the different orientations to provide a more natural experience to users as well as understanding the future use of 360-degree videos [Fall 2019]

### Resident Advisor, Virginia Tech Housing and Residence Life

Aug 2019-Present

- Built a community of 30 residents living in an engineering Living Learning Community (Galipatia LLC) and maintained a well-rounded hall environment that promotes personal and professional growth
- Enforced policies and safety standards through building and rooms to ensure the wellbeing of the residents

### Software Engineering Intern, Newgen Software

June 2019-Aug 2019

- Collaborated with Customer Communication Management (CCM) team to evaluate the OmniOMS product by analyzing code in Java and JavaScript, scanning for bugs and vulnerabilities, and securing the infrastructure
- Enhanced the product to improve its efficiency by developing code fixes for inclusion in future code releases and patches

## PERSONAL PROJECTS

### Virtual Clinic – Django, HTML, CSS, JavaScript

- Currently developing a virtual clinic website that allows patients and healthcare workers to provide holistic clinical experience through virtual consultation, chatbot and pharmacy delivery services

### Thrifty – React Native [SummerHacks '20]

- Currently developing a cross-platform mobile application that allows users to analyze and track expenses along with a recommendation system using ML that provides cheaper options for future purchases

### Run Time - HTML, CSS, JavaScript [SheHacksVT '20]

- Developed a web application designed for runners that lose motivation eventually. Application includes plans designed based on experience, calendar to schedule runs and add to personal google calendar. Working on developing a social aspect where users can find a runner's community.

### Library Management – C++

- This was my very first CS project. The application could read, append and sort records of books and students. Works like a library system with records of students borrowing and returning books.

## ACTIVITIES & LEADERSHIP

### President, CEED International Student Support Team

- Organized and advertised informative events for 50+ international students in the engineering living-learning community and provided online support to the incoming class of international students while overseeing a team of 8 officers

### Information Management Chair, Student Engineers' Council (SEC)

- Programmed the SEC website using web development skills to cater the events organized by the SEC

### Outreach Junior Chair, Association of Women in Computing (AWC)

- Advanced the programs organized by AWC Outreach such as Coding with the Elderly and mid school workshops to help beginners learn to code and raise awareness about STEM fields

### Business Manager, Engineers' Forum

- Writing informative articles showcase VT alumni success with tips for current students and help current design teams raise funds

### Technical Lead, Developer Student Club

- Encouraging students from various disciplines to learn new skills and showcase their talent by working on a community project; participating in the Google DSC Solutions Challenge by building an application called Study Planner which enables students to create personalized check sheets for their intended major(s) and minor(s)

## **AWARDS AND HONORS**

**Best Cyber Focused Hack, SheHacksVT – HTML**  
**Recipient of Housing Scholarship**

Feb 2020  
2019-2020, 2020-2021

## **SKILLS**

- Programming: Java, C++, C, Python, Linux
- Web development: HTML, CSS, JavaScript