Soumya Khanna

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EDUCATION

Virginia Polytechnic Institute and State University   2018 - 2021
- Bachelor of Science in Computer Science   Cumulative GPA: 3.45

Awards and Honors:
- Dean's List: Fall '18, Spring '19, Spring '20, Fall '20
- Awarded a scholarship to attend Grace Hopper Celebration '20 by the Department of Computer Science
- Awarded a scholarship to attend HarvardWECode '21 by the Association of Women in Computing (AWC)
- Attended the ACM User Interface Software and Technology Symposium (UIST) 2020 representing Echolab at VT
- Recipient of Housing Scholarship for two consecutive years

WORK EXPERIENCE

Intern, Accenture   [Canceled due to COVID-19]

Undergraduate Research Assistant, Echolab (Virginia Tech Centre for Human-Computer Interaction)   Oct 2019 – Present
- Collaborate on Narcissistic Eyes project researching self-monitoring in video conferences based on varying social aspects by tracking eye movements during a mock job interview; conducted 18+ user studies and paper accepted to CHI 2021
- Enhanced VR Viewfinder project, delivering an interactive third-person perspective to view live VR art performances, resulting in a more engaging user experience. Programmed in Unity (C# and JavaScript) to improve VR environment by adding a color picker and debugging user issues; designed the questionnaires and user study
- Previously, analyzed the performance of 360-degree videos with differing orientations to deliver a more natural user experience and understand future utilization of 360-degree videos

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 optimize its efficiency by 15% developing code fixes for inclusion in future code releases and patches

Resident Advisor, Virginia Tech Housing and Residence Life   Aug 2019 - May 2021
- 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 well-being of the residents

PERSONAL PROJECTS

Mashed.MP3 – Swift, API, Processing   May 2021
- Developed an iOS application that creates beautiful visualizations using Processing based on music preferences of a group using the Spotify API to get the music data for the Creative Computing Studio Capstone project

TalkItOut – Swift   May 2021
- Developed an iOS application to help navigate difficult conversations through negotiation; provided users the opportunity to have a well-structured conversation with the help of text prompts and timers for the Human-Computer Interaction Capstone project

Thrifty – React Native, Python   June 2020
- Developed a cross-platform mobile application that allows users to analyze and track expenses along with feature displaying future pricing options from local businesses
- Utilized Google OCR API for scanning and receipts data parsing, and Firebase for user authentication and image storage
- Participated in SummerHacks, a 12-week hackathon by Free Tail Hackers

Run Time - HTML, CSS, JavaScript   Feb 2020
- Implemented a web application designed for runners that lose motivation eventually. The application includes plans designed based on experience, a calendar to schedule runs and add to a personal google calendar. Adding a social aspect where users can find a runner's community
- Awarded Best Cyber Focused Hack out of 40 teams in SheHacksVT

ACTIVITIES & LEADERSHIP

DSC Lead at Virginia Tech, Developer Student Club by Google Developers   July 2020 – Present
President, CEED International Student Support Team   May 2020 – May 2021
Information Management Chair, Student Engineers' Council (SEC)   May 2020 – May 2021
Outreach Junior Chair, Association of Women in Computing (AWC)   May 2020 – May 2021
Business Manager, Engineers' Forum   May 2020 – May 2021

SKILLS

- Programming: Java, C++, C, Python
- Operating System: Windows, Linux, MacOS
- Web development: HTML, CSS, JavaScript
- Mobile development: React Native, Swift