












Anand Kumar

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EDUCATION

- MSc. Computer Science (Thesis), University of Calgary**  May 2024 – December 2025 | Calgary, Canada
- Supervised by Dr. Aditya Shekhar Nittala 
 - CGPA: 4.00/4.00
- BSc. Computer Science, Habib University**  August 2018 – May 2022 | Karachi, Pakistan
- CGPA: 3.76/4.00

WORK EXPERIENCE

- Securiti.ai**  January 2023 – April 2024 | Karachi, Pakistan
- Software Engineer*
- Delivered customer-specific features using **VueJS** (frontend) and **Go** (backend).
 - Created and integrated modular APIs, streamlined component architecture, and resolved critical bugs, boosting code efficiency.
 - Conducted thorough code reviews to maintain high coding standards and optimize performance.
- Associate Software Engineer* June 2022 – December 2022 | Karachi, Pakistan
- Assisted in frontend and backend feature development.
 - Supported senior engineers in code reviews and best practices.
- Appick, Web Development Intern**  August 2021 – October 2021 | Karachi, Pakistan
- Developed multiple projects using **VueJS**, integrating front-end designs with back-end systems via **Axios** and ensuring responsive, engaging user interfaces with **Bootstrap-Vue**.
 - Implemented effective state management with **Vuex** to enhance website functionality and optimize communication between front-end and back-end systems.
- Securiti.ai, SQA Engineering Intern**  June 2021 – August 2021 | Karachi, Pakistan
- Developed a **Python3** program to scrape HTML source code and capture screenshots of Securiti's product portal and public website daily, identifying differences using bounding boxes.
 - Designed and implemented a full-stack solution to display the differences, utilizing **VueJS** for a responsive front-end and **PHP** for back-end development.


RESEARCH AND PUBLICATIONS

- PEER-REVIEWED CONFERENCE PAPERS:**
- Anand Kumar**, Antony Albert Raj Irudayaraj, Ishita Chandra, Adwait Sharma, Aditya Shekhar Nittala. 2025. *SparseEMG: Computational Design of Sparse EMG Layouts for Sensing Gestures*. In Proceedings of the 2025 ACM Symposium on User Interface Software and Technology (UIST '25) (to be published)
 - Anand Kumar**, Ghani Haider, Maheen Khan, Rida Zahid Khan, Syeda Saleha Raza. 2022. *Saathi: An urdu virtual assistant for elderly aging in place*. In International Conference on Smart Homes and Health Telematics (ICOST '22)
- POSTERS:**
- Ben Pearman, **Anand Kumar**, Wesley Willett, Aditya Shekhar Nittala. 2025. *RF-Interfaces For User Input & Enhanced Spatial Perception*. In Adjunct Proceedings of Graphics Interface 2025 (Poster, GI '25)

TECHNICAL SKILLS

Programming Languages: Python3, Go, C/C++, JavaScript, PHP	Deep Learning Tools: PyTorch, TensorFlow, Pandas, NumPy	Web Development: VueJS, NuxtJS, JavaScript, HTML, CSS	Tools & Databases: Git, BitBucket, JIRA, MS SQL Server, MySQL, MongoDB
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ACHEIVEMENTS

- Top 50 Solutions, Google Solution Challenge - 2022** 
- Capstone project ranked among the top 50 out of 800+ global teams in the 2022 Solution Challenge, which aimed to address the United Nation's 17 Sustainable Development Goals using Google technology.
- Dean's Honour Roll Fall 2021, Habib University**
- Received in recognition of outstanding academic performance.
- 100% Merit Scholarship, Habib University**
- Awarded 100% scholarship by Habib University to pursue a Bachelor of Science in Computer Science.
 - One of the top 50 students to receive this scholarship.
- Best Khidmat (community service) Award - 2022, Habib University**
- Awarded the best Khidmat (community service) award for my work at Saaya Pakistan NGO