Karthik Vedantham

Email-ID: kvsqashit@gmail.com
Contact: +91 8919757169

LinkedIn | GitHub

Education

- **National Institute Of Technology, Hamirpur**   Hamirpur, H.P., India
  Dual Degree Bachelor and Master of Technology in Computer Science and Engineering   *Aug. 2016 – May. 2021*
  CGPI – 9.43/10 (Rank 2)

Skills

- **Programming Languages:** C, C++, C#, Python
- **Tools/Frameworks:** Linux, OpenGL, OpenCV, Unity 3D, MySQL, Android Development

Experience

- **MITACS, Canada**   British Columbia, Canada
  Globalink Research Intern 2019   *May. 2019 - Aug. 2019*
  Supervised by Dr.Andrew Park, Associate Professor at Thompson Rivers University, Kamloops, Canada
    - Worked on the project "Detecting Possible Lone Wolf Terrorist's Locations"
    - Co-wrote the research paper "Detecting Possible Lone Wolf Terrorist's Locations", was accepted for the IEEE IEMCON 2019 conference

Projects

- **Detecting Possible Lone Wolf Terrorist's Locations:** A computational framework, which is an alternative
  way to detect possible locations of lone-wolf terrorists using computational algorithms and simulations. Analyzes a 3D environment to predict the optimal place from where a lone wolf shooter might attack a target crowd from.
- **Slate:** A new interface, which takes input by waving 'red LED light' in front of a webcam. Slate recognizes human handwriting written on it. Includes a calculator, sketch-board (with eraser), gesture control, ASCII-art.
  Winning project of Hack on Hills 3.0, 2018. (C++, OpenCV).
- **PacManGL:** Famous Arcade game built from scratch in C++ using OpenGL (GLFW). *Winning project of Hack 2.0, 2018. (C++, OpenGL).*

Accomplishments

- Interviewed by various prominent Canadian radio and television networks, about my project during the MITACS research internship.   *Jun. 2019*
- Ranked **575**th globally in August Challenge 2018 on Codechef.   *Aug. 2018*
- Ranked **3**rd in Hackathon (Hack on Hills 3.0) conducted by Hackerearth.   *Mar. 2018*
- Ranked **3**rd in Hack 2.0 conducted at National Institute of Technology, Hamirpur.   *Feb. 2018*

Courses

- Analysis and Design of Algorithms, Neural Networks and Fuzzy Logic, Data Structures, Operating System,

Advanced-Database Management Systems.

Co-curriculars

- Volunteer at GLUG NIT-H. *Mar. 2017 - Present*
- Core-coordinator at Team Pixonoids, NIT-H. *Mar. 2017 - Present*
- Convener at Computer Science Engineers Community, NIT-H. *Feb. 2017 - Present*