# Abhishek Kaul

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## SKILLS

Non-technical:
- Technical writing, professional communication, team player, responsible, Agile, positive, problem-solver, and curious

Hardware:
- Experienced in assembling PCs, disassembling PCs, and troubleshooting issues with components
- Comfortable with Raspberry Pi, Arduino, and breadboards
- Hands-on work with DMMs, function generators, and basic circuit components (resistors, capacitors, etc.)

Software:
- Front-end: HTML5, CSS, JavaScript, JSON, SQL
- Back-end: C++, Java, C#, Python
- Memory dump analysis (Visual Studio)
- Stack/heap memory management

Other technical:
- IDEs: Visual Studio, Eclipse, NetBeans, CodeBlocks, GDB
- Experience with using Linux, Windows, macOS, iOS, and Android
- Highly skilled at MS Office (Excel, Word, Access.), PowerShell, TensorFlow; version control with GitHub

## EXPERIENCE

- ❖ *Intern*: Intex Technologies Ltd.                                                                    *July '13*
  - Hardware/software troubleshooting, hardware assembly, and BIOS-level OS installation
  - Helped fix clients' devices by volunteering to work with them
    - Improved the team's customer service by recognising bottlenecks in procedures and providing innovative solutions, such as adding an online form instead of relying only on phone calls
- ❖ Repair: troubleshooted and fixed my laptop                                                           *April '17*
  - Reset Windows via emergency recovery partition:
    - Registry corruptions affected bootup and caused systemic BSODs
  - Replaced HDD after careful systematic troubleshooting:
    - Uncorrectable sector count and read error rate crossed threshold → imminent HDD failure
  - Resolved hardware issue regarding CD-ROM tray ejection failure with innovative solution
- ❖ National Honor Society                                                                               *Aug '14 – May '16*
  - Coordinated school-wide community projects, such as the *Miles for Smiles*, between admin, students, and staff with my time-management and professional communication skills
- ❖ Varsity team captain                                                                                 *Aug '16 – May '16*
  - Lead a younger set of badminton and volleyball players to a great season
    - Used my leadership, empathy, and communication skills to instil a love for the game while establishing the importance of a good work ethic

## PROJECTS

- ❖ Project Euler                                                                                        *Ongoing*
  - Solved questions that require a combination of math and programming logic
    - Alternated between Java and C++; optimise time taken using recursive and Big O logic
    - Ex. "find the sum of all prime numbers below two million."
  - Refined my coding logic by showing initiative to challenge myself with complex problems
- ❖ Fuel Cell Boat Project                                                                               *Spring '17*
  - Gained technical report writing skills and completed a 30-page report on the project
  - Organised goals with a Gantt chart, delegated tasks, and helped lead the team towards making decisions by showing leadership, communication and time-management skills

EDUCATION

- ❖ University of Waterloo
  - ➢ Candidate for Bachelor of Applied Sciences, Computer Engineering          *Sept '16 – April '22*
    - ▪ Linear Circuits, C++, calculus, linear algebra.

- ❖ Surabaya Intercultural School
  - ➢ American High School Diploma          *Aug '12 – May '16*
    - ▪ Business management, psychology, calculus, chemistry, physics

ACTIVITIES & INTERESTS

- ❖ Sports in general, but mostly badminton, cricket, table tennis, volleyball, basketball, futsal, etc.
- ❖ Gaming! FPS, sports, and RPG games are my go-to games
  - ➢ Fortnite, FIFA, COD, and Undertale are some of my favourite ones
- ❖ Music: drums (5 years) & guitar (3 years)
  - ➢ Genres: Jazz, soul, rock, country, 00's pop (Maroon 5's old songs are gold), dubstep
- ❖ Psychology
- ❖ UW MATES: a set of volunteers with a penchant for helping fellow students, and along with weekly office hours we are committed to creating a healthier mental environment for all students in our university.