

# Abhishek Kaul

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## SKILLS

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### 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

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### ❖ 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 '15 – 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

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### ❖ 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

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- ❖ 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

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- ❖ 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.