

# Ahmed Mahmoud

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## Highlights of Qualifications

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### Software Testing

- Explored and learned SW testing methods such as White-Box and Black-Box testing in a final Software Design assignment to ensure the project's robustness
- Experienced in testing in both Agile and Waterfall development models during Software Design courses to ensure projects' robustness
- Designed tests by utilizing the test-bed methodology alongside skeleton frameworks to ensure reusability of tests

### Software Design

- Designed a query engine alongside 2 other team members that returns crime data results from a database with over 100,000 entries to the user in a readable fashion

### Web Development

- Fluent in HTML/CSS/SCSS development, can create dynamic, stylized pages
- Strong skills in .NET and .NET Core Web API development
- Strong skills in Angular CLI + Firebase to create full Web Apps.

### Communicational Skills and Technical Writings

- Created an extensive requirements document by completing the to ensure that the resulting project meets what is needed
- Accurately completed observations on over 100 specimens as a lab assistant by utilizing clear and concise language to ensure that the results are easy to understand

### Coding Language Competency

- Strong skills in Java, C, C#, Perl, CSS, JavaScript & Typescript, R, and SQL

## Education

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September 2016 - Present | University of Guelph

Bachelor of Computing (Co-op) with a Minor in Mathematics (GPA: 92%)

Guelph, Ontario

Previous courses and their results:

- User Interface Design | CIS\*2170 – 94%
- Software System Development & Integration | CIS\*2750 – 100%
- Modelling of Computer Systems | CIS\*2460 – 100%
- Data Structures | CIS\*2520 – 92%
- Software for Legacy Systems | CIS\*3250 – 96%

September 2012 - June 2016 | Guelph Collegiate Vocational Institute

OSSD

Guelph, Ontario

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## Computing Experience

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September 2018 - December 2018 | Unitron's Dynamic Questionnaire

- Part of the Web development team for Unitron's Dynamic Questionnaire
- Developed both front-end and back-end development of website alongside team
- Data driven questionnaire that asks patients about their general hearing aid experience and dynamically alerts the healthcare provider with any important information

June 2018 - September 2018 | Unitron's myInsights FLEX:TRACKER

- Part of the Web development team for Unitron's FLEX:TRACKER
- Developed both front-end and back-end of website alongside team
- This web app displays patient's hearing aid information and allows the healthcare provider to lend hearing aids to users with ease

May 2018 | Angular and Typescript Training

- Unitron provided advanced training into Angular and Typescript
- Completed all modules and then applied this training in working on Unitron's new web products

## Work Experience

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May 2018 - December 2018 | Web Developer | Unitron

Kitchener, Ontario

- Created and maintained integration tests that ensured our backend Web Services were stable
- Developed Angular Web Apps for multiple large flagship Unitron Patient Ratings products
- Developed .NET and .NET Core APIs/Web backends for flagship Unitron Patient Ratings products
- Generated reports for marketing from production user data for further insight into the use of our products

November 2016 - February 2017 | Lab Assistant | University of Guelph

Guelph, Ontario

- Efficient sterilization of over 100 specimen containers utilizing an Autoclave
- Acquired both WHIMIS and Lab Safety certificates to ensure basic safety in the workplace
- Created accurate notes about the various specimens to allow for correct result analysis

## Volunteer Experience

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June 2016 - August 2016 | Guelph Soccer

Head Coach

Guelph, Ontario

- Efficient and accurate completion of appropriate paperwork with no errors
- Developed leadership skills throughout by teaching and organizing the team

## Achievements

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November 2018 | CEPS Dean's Scholarship

- A \$2000 dollar awarded which is given to the top students of the previous two semesters

January 2018 & April 2018 | CEPS Dean's Honours List for Fall 2016 and Winter 2017

- Given to students for achieving an 80% or above average in a given semester

January 2017 & April 2017 | CEPS Dean's Honours List for Fall 2016 and Winter 2017

- Given to students for achieving an 80% or above average in a given semester

June 2016 | Gaels Award - Computing

- Given to a Guelph CVI student that shows overall excellence in a course

June 2016 | Qualification for Regionals in ECOO Programming Contest

- A collaborative computer coding contest

May 2016 | Strong Placement in Canadian Computer Contest 2016

- A collaborative computer coding contest

June 2013, 2014, 2015, and 2016 | Honor Roll (x4)

- Given to students who achieve a cumulative average greater than 85%