

# Shaf Nasir

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## EDUCATION

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**UNIVERSITY OF TORONTO**, Mississauga, ON, Canada

Bachelor of Science in Computer Science (Honours), Expected June 2020

## EXPERIENCE

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### **FIRST DERIVATIVES, Junior Software Engineer (PEY)**

May 2018 – August 2019, Toronto, ON, Canada

- Built a web scraper in Python to parse data from library sites to see trends in the availability of E-Books
- Developed a Java program to update data in MySQL saving time from editing the database manually
- Implemented two requirements for a project that calculates spare electricity in Ontario neighborhoods
- Wrote a C# program to parse data files into CSV as part of a kdb+ database sales pitch to a client
- Researched open source visual regression testing tools and presented findings to 20+ employees
- Created a Python script to test website accessibility requirements, saving time from manual inspection

## PROJECTS

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### **MUSIC MILLENNIUM CLASSIFICATION**, January 2020

- Developed a program in Python that predicts which century a piece of music was released
- Program calculates predictions using classification and nearest neighbour models

### **FILE SYNCH**, March 2017

- Developed a C terminal program that copies a file to a destination directory
- Program uses multiple processes in parallel to copy directories

### **PAINT PROGRAM**, November 2016

- Built a program in Java that lets users draw shapes with different colours and sizes
- Contains many additional features such as cut, copy, paste, save and load

## EXTRACURRICULAR ACTIVITIES

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### **UoFTHACKS IV**

- Accepted to University of Toronto's annual 36-hour hackathon (January 2017)
- Built a top-down 2-D shooting game in Java with Swing GUI in a team of three

### **ONLINE COURSES**

- Front End Development (freeCodeCamp), Android Development (Udacity), Codecademy

## SKILLS

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**Languages:** Python, Java, C, C#, SQL, JavaScript, HTML/CSS, Racket, Scala

**Software/Tools:** Eclipse, VSCode, PyCharm, IntelliJ, Android, Git, SVN, Selenium, Flask, Spark