

Roya Shams-Zadeh-Amiri

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Education

- **University of Toronto, St. George Campus** Toronto, ON (2015–Present),
(H.B.Sc) Computer Science Specialist
- **Bayview Secondary School** Richmond Hill, ON (2011–2015)
Earned International Baccalaureate (IB) Diploma

Relevant Coursework

Current	Completed	
<ul style="list-style-type: none">• Introduction to Visual Computing• Computer Graphics• Operating Systems	<ul style="list-style-type: none">• Software Design• Software Tools and Systems Programming• Web Development• Design of Interactive Computational Media	<ul style="list-style-type: none">• Introduction to Databases• Algorithm Design, Analysis, and Complexity• Computer Organization

Skills

- **Languages:** Python, Java, Verilog, C, SQL and self-taught knowledge of HTML, CSS, and JavaScript.
- **Frameworks and Libraries:** p5.js, JQuery, Ajax, OpenCV, Django, NumPy
- **Git and Version Control** for collaborative work, 3 years of experience
- **OSX and Linux** based desktop platforms, 3 years of experience
- Additional knowledge of **Graphic Design** with Adobe Photoshop

Experience

- **Alpha Coach for Hatch Canada (Current)**
 - Classroom instructor for afterschool program towards students aged 7–17, assists students with personal projects using the python console
 - Patient with explaining programming concepts at accommodating levels.
 - Adapts to each student's needs and experience, as well as their interests and what projects motivate them.
 - Generates enthusiasm for programming, building, and creating within younger students
- **Toronto ACM SIGGRAPH Chapter Website Chair (Current)**
 - Publicizes upcoming events, resources, and developments in the field of computer graphics, emphasis within Toronto.
 - Coordinates on a weekly basis with rest of chapter using conference calls or in person meetings to keep track of any updates that need to be reflected in public material

Projects

- **Personal Site: www.royashams.com (HTML, CSS, and JavaScript, self-taught) (Jul. 2017)**
 - Designed all involved graphic components using Adobe Photoshop.
 - Navigation diamond created using an iterative design process tested on multiple users to observe intuitiveness of use.
 - Steps in this process-included prototyping, testing, observing user feedback to create a better design for user interaction.
 - Key refinements made through observation of user interaction include adding flashing arrow buttons, and implementing visual cues using hover capabilities over the diamond.

- **Snackerman:** www.royashams.pythonanywhere.com (Django/Python)(Dec. 2017)
 - Web app allowing users to find, bookmark, and review food places on the University of Toronto Campus, directed towards students and faculty
 - Collaborated with 3 students, using and extending the cobalt.qas.im API
 - Implemented back-end HTTP routing methods to our RESTful API, and created django.db databases for storing, updating, and deleting messages and reviews to the server
- **Printing a File Tree:** github.com/royashams/Fancy-File-Tree- (C) (Apr. 2017)
 - Used file I/O capabilities to recursively print a file tree. Given a directory, it will search through all sub files and subdirectories to print their names and permissions.

Extracurricular

- **Communications Director for University of Toronto Computer Graphics club (UTCG) (Current)**
 - Responsible for coordinating emails and social media for UTCCG
 - Publicizes events using different demographics to increase attendance at events
 - Speaks and coordinates with presenters including professors, students, and professionals in computer graphics doing research or industry developments
- **SIGGRAPH 2017 Student Volunteer in Los Angeles (Aug. 2017)**
 - Selected as a Student Volunteer for the largest conference dedicated to computer graphics and interactive techniques
 - Assisted conference attendees with their questions and concerns, communicated information from conference organizers to the attendees.
 - Met and understood needs of students and industry professionals within fields such as film, animation, software development, gaming, visualization, fabrication, etc.
 - Assisted a presenter with demonstrating 3D printing technology to attendees, and explained different components of the technology to attendees.
- **Other**
 - Computer Science Student Union Office Operations (Current)
 - Computer Science Frosh Leader (Sept. 2017)
 - Hart House Singers – Choir Member (2016–2017)
 - Independent photographer, musician, designer, sculptor, and crafter.

Additional links and Portfolios

*Note: All links below can be found on my website: <https://royashams.github.io/portfolio.html>

- Photography Portfolio <https://tinyurl.com/y9zfygxc>
 - A full flickr collection of photography as a hobby and for events.
- Graphic Design Portfolio <https://www.behance.net/RoyaShams>
 - Includes Graphics and Illustration. Made with Adobe Photoshop
- Stereoscopic Photography Portfolio <https://tinyurl.com/ybpam8l6>
 - Side-by-side 3D photography.