

# NESMA BELKHODJA

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## EDUCATION

**New York University**, New York, NY

*Graduated May 2019*

*Bachelor of Arts in Computer Science, minor in Studio Art*

- **NYU Dean's Scholar** (small group of students selected by dean)
- **NYU Presidential Honors Scholar** (top 5% of incoming class)

## TECHNICAL SKILLS

**Programming / Scripting Languages:**

Java, JavaScript, Python, C, C#, PHP

**Operating Systems:**

Windows, Linux, UNIX

**Web Site Development:**

TCP/IP Programming, Node.js, Express Bootstrap, Socket.IO, HTML, CSS

**Database Development:**

SQL, MySQL, MediaWiki, WikiBase, Drupal, SPARQL, MongoDB

**Other Tools:**

Blender, Unity 2D / 3D, Eclipse, Photoshop, Premiere, After Effects

**Spoken Languages:**

English (Native), Arabic (Fluent), French (Fluent), Chinese (Beginner)

## WORK EXPERIENCE

**Courant Institute of Mathematical Sciences**, New York, NY

*Winter 2017-July 2019*

*Research Assistant – Artist Archives Initiative*

- Created a web-based collections management system using MediaWiki and SPARQL for performance artist, Joan Jonas
- Worked with art historians and curators to create a system to support research, conservation and exhibition for contemporary artists
- Collaborated with project team at The British Museum as a case study for ResearchSpace, a shared digital research infrastructure funded by the Andrew W. Mellon Foundation that uses **Linked Data** and the **Semantic Web** model

**Future Reality Lab**, New York, NY

*Summer 2018-July 2019*

*Research Assistant*

- Contributed to research projects focusing on multi-user virtual and augmented reality under Professor Ken Perlin
- Developed virtual reality experiences for the Microsoft Mixed Reality Headset using **C#** in **Unity 3D Game Engine**

**NYU IT Service Desk**, New York, NY

*Fall 2017-July 2019*

*Help Desk Support Staff*

- Provided tier-1 assistance to university faculty and students in resolving IT issues
- Escalation point for issues with network issues, VPN, and desktop applications

**WNYU 89.1 FM**, New York, NY

*Spring 2016-July 2019*

*Program Director / Music Director (2017-2018) / Host*

- Helped to determine overall air sound, making certain that the programming and its execution fulfills the overall station mission and is compliant with FCC Regulations
- Managed music programming, evaluated music submissions, and curated new music library
- As Music Director, independently developed web app that generates weekly new music chart for 600+ subscribers using **Javascript** and **MongoDB**

**NYU Courant Institute of Mathematical Sciences**, New York, NY

*Fall 2017*

*Undergraduate Teacher's Assistance / Calculus I*

- Worked with students on an individual and group basis to help complete assignments and reinforce concepts

**Store Reporter**, Potomac, MD

*Summer 2017*

*Web Development Intern*

- Implemented **CSS** and **HTML** to overhaul existing website

**iD Tech Summer Camp**, College Park, MD

*Summer 2016 and 2017*

*Lead Instructor / Assistant Director*

- Taught courses in Robotics, Java Coding, and Game Design
- Supervised a team of 6 instructors - enforced safety regulations, planned activities, and managed client relationships