

# Jonathan Morales

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Portfolio: [www.voyagerhigh.com](http://www.voyagerhigh.com)  
2345 Story Ave. Bronx, NY 10473

## Education

### East Stroudsburg University

B.S. Computer Science, Minor in Mathematics – May 2018 (Expected)

- Coursework – C++, C#, Java, Software Engineering, Data Structures & Algorithms, Operating Systems, Artificial Intelligence, Graph Theory, Unity Game Development

## Programming Experience

### Portfolio Website (Wordpress) – [www.voyagerhigh.com](http://www.voyagerhigh.com)

- Utilized Wordpress to create a visually appealing and responsive website using a LAMP stack
- Created Wordpress theme using Twitter Bootstrap, as well as custom JavaScript, PHP, and HTML/CSS

### 8-Puzzle App (JavaScript app)

- Programmed A-star search algorithm to solve a 3x3 8-puzzle
- Utilized JavaScript, CSS, and HTML to implement a GUI interface for improved user interaction

### Filtershot (photo editor)

- Utilized object-oriented design patterns to collaborate with 30 programmers on a command-line photo application
- Built core functionality that other teams utilized/built upon to create their parts of the project

### A Modern Ghost (iOS app)

- Programmed exponential decay/growth function in Unity to manage user swipe input for an interactive story
- Shortlisted for Bournemouth University's 2017 Media Prize

### 3D Asteroids (desktop game)

- Utilized Unity's Shuriken engine to create particle explosions
- Used 3D physics engine to create realistic player movement and shooting mechanism, including homing missiles

## Work Experience

### Programmer – AltSalt Media (Jan 2015 – May 2016)

- Programmed functionality for user input and animations for interactive stories

### Sales Associate – Weis Quality Markets (Jun 2015 – Dec 2017)

- Maintained/stocked produce; provided exceptional customer service

## Computer Skills

### Languages

- JavaScript/JQuery
- HTML/CSS
- PHP
- C/C++/C#
- Java
- SQL
- Perl
- Prolog / LISP
- Assembler
- XML
- Git

### Software

- Wordpress
- Twitter Bootstrap
- Xcode
- Visual Studio
- Unity
- Microsoft Office

### Operating Systems

- Windows (7/8/10)
- Mac OS
- Linux (Fedora/Debian)